

FIG. 1

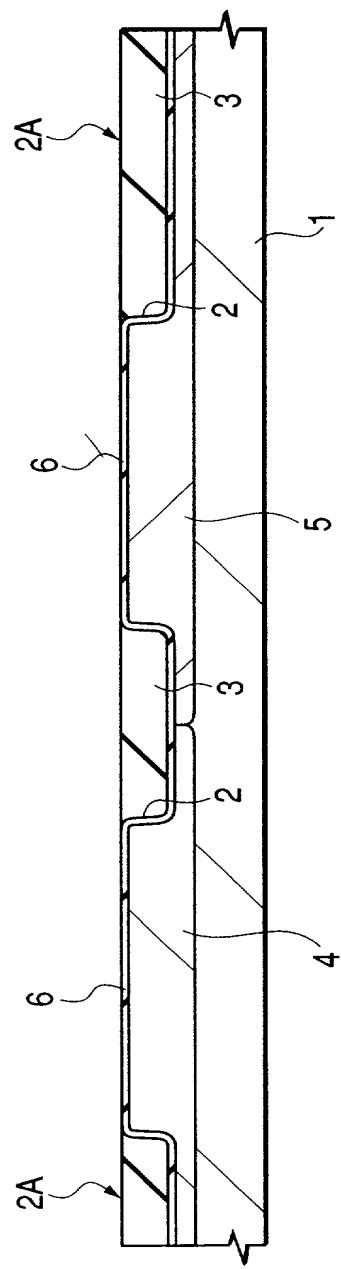


FIG. 2

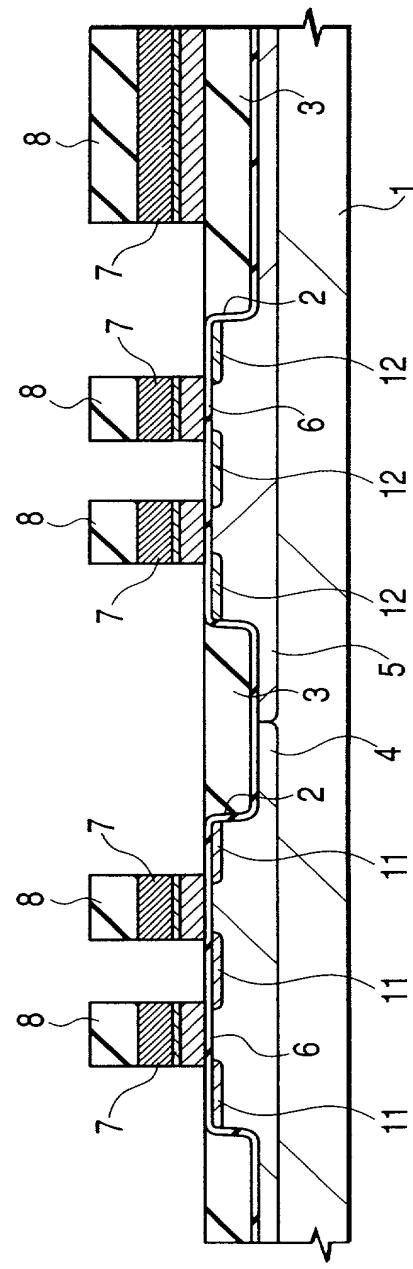


FIG. 3

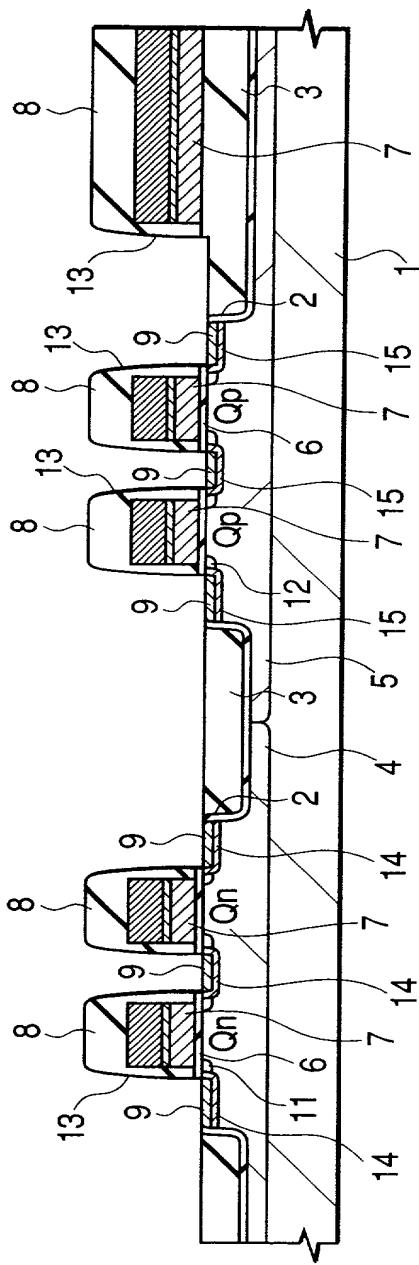


FIG. 4

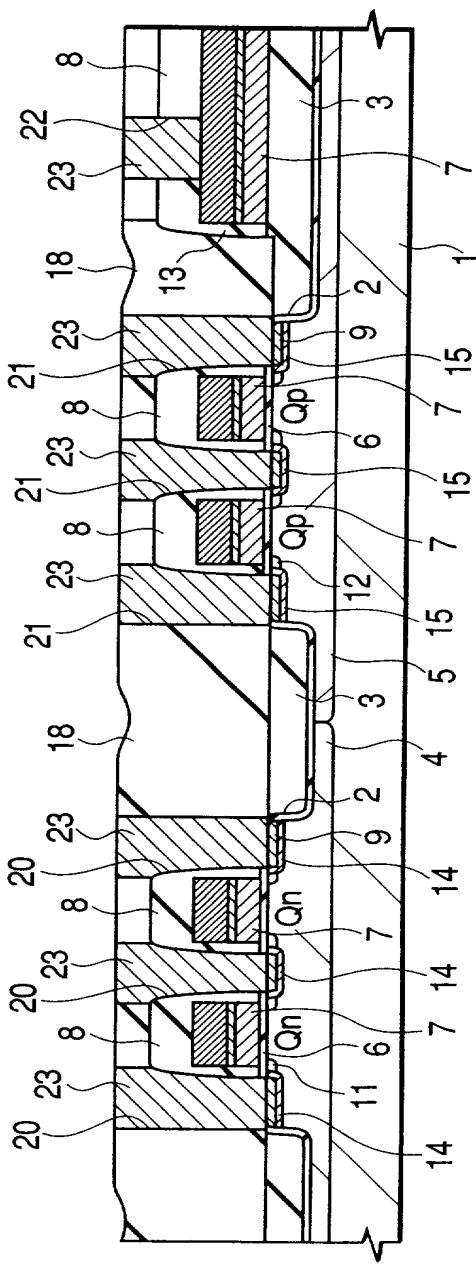


FIG. 5

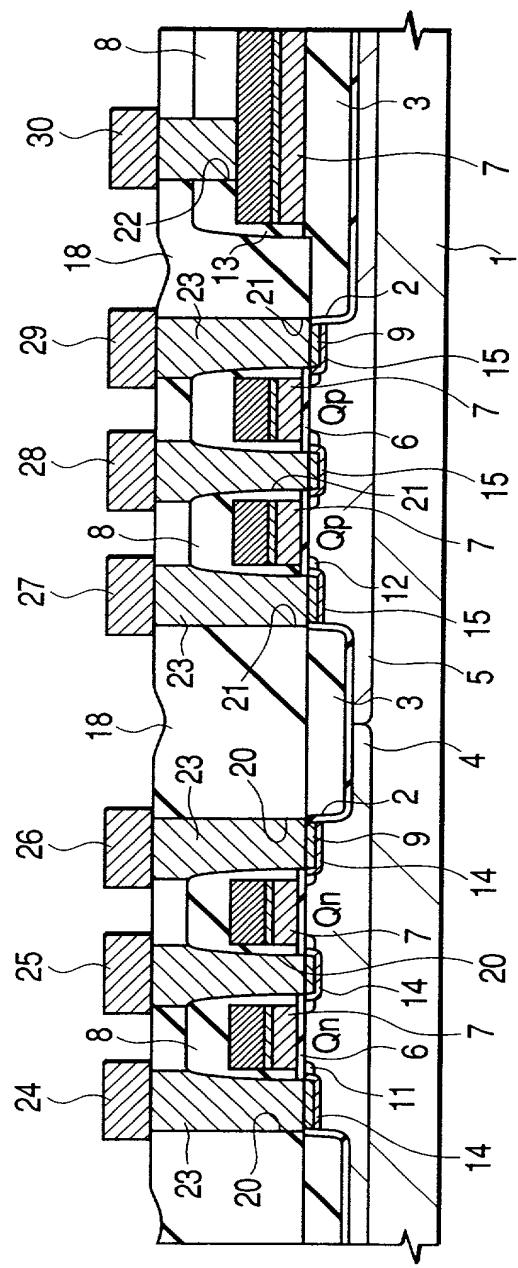


FIG. 6(a)

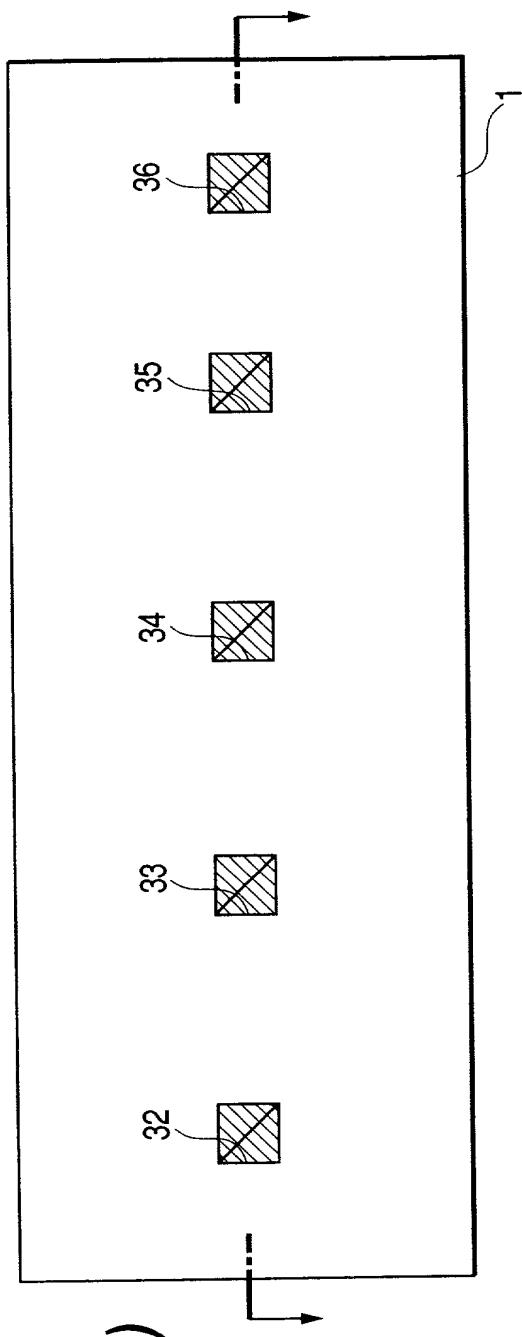
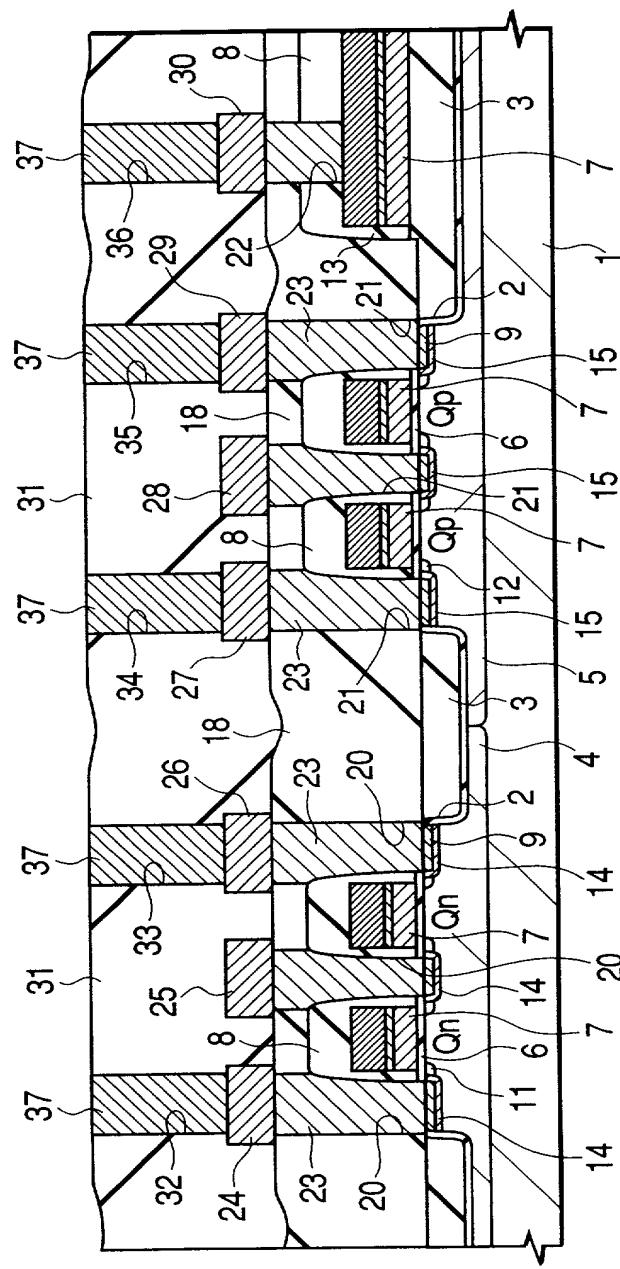


FIG. 6(b)



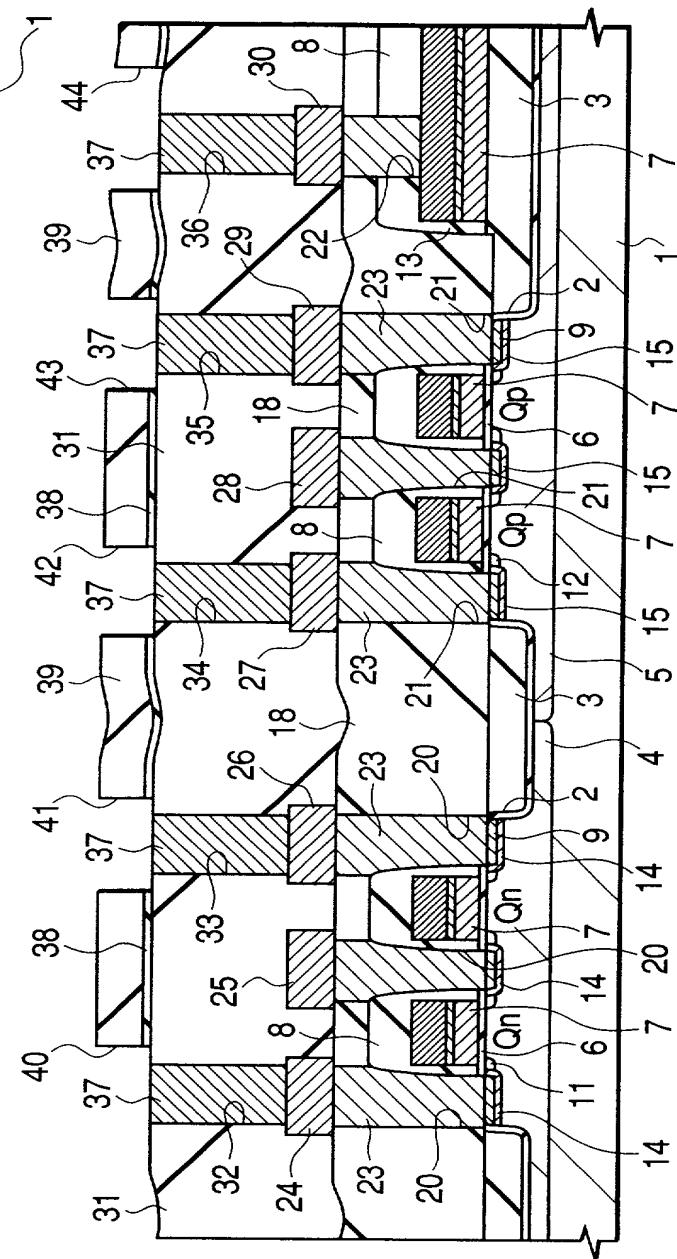
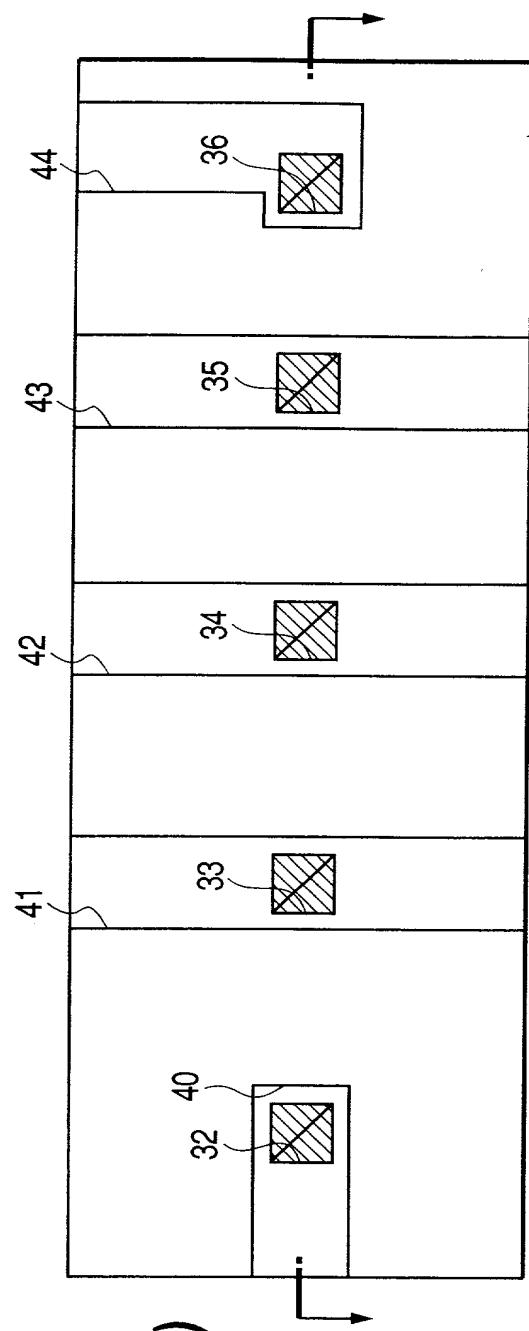


FIG. 8

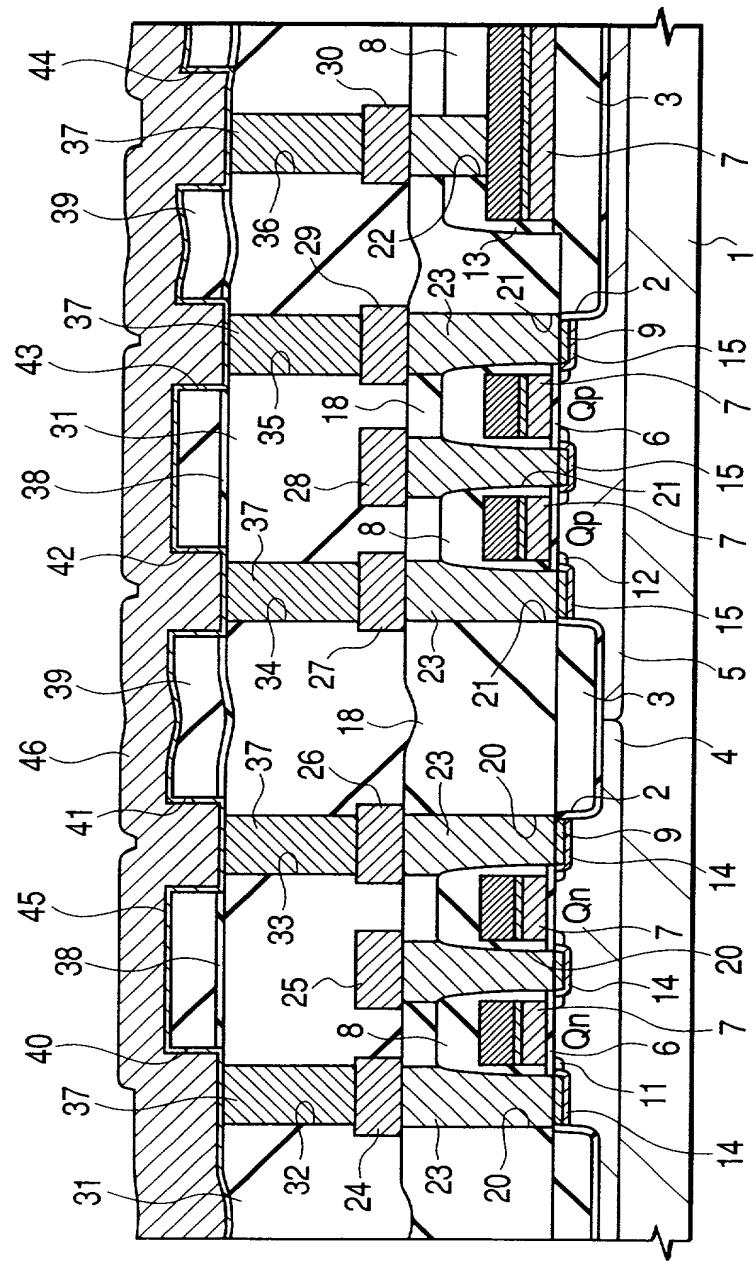


FIG. 9

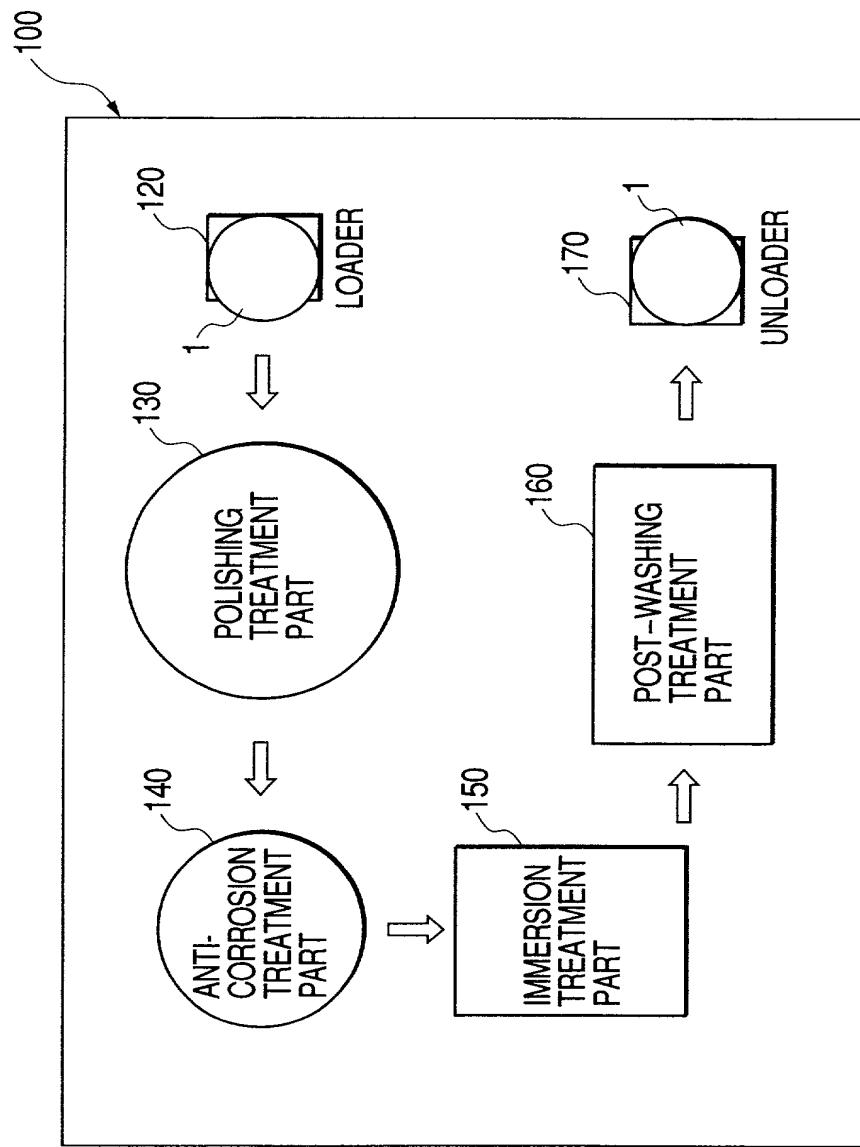


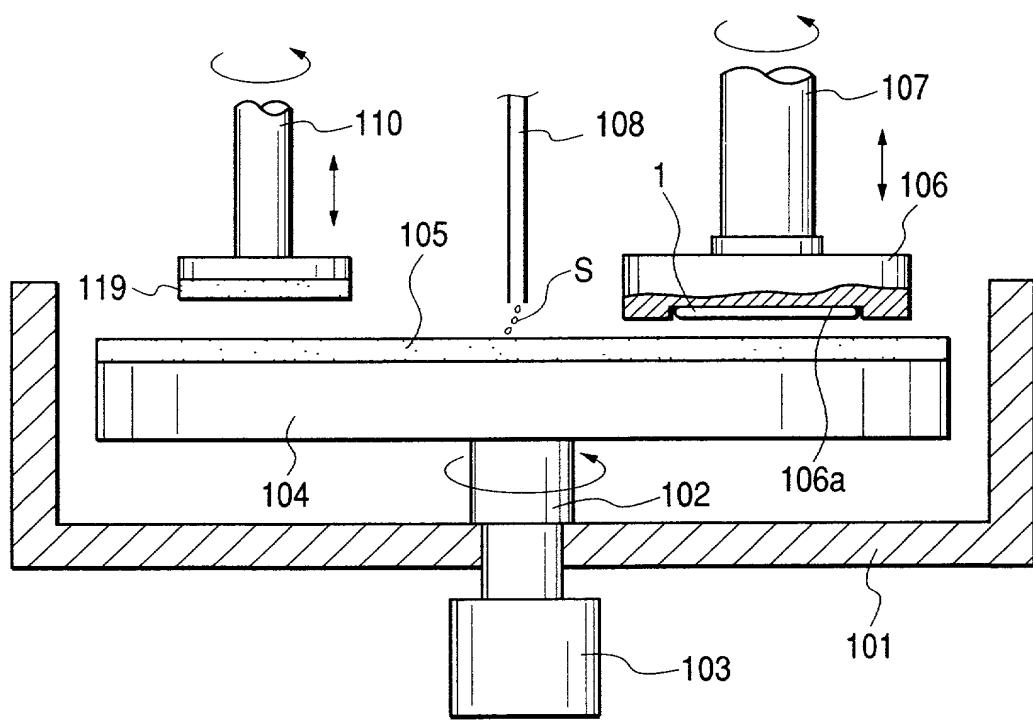
FIG. 10

FIG. 11

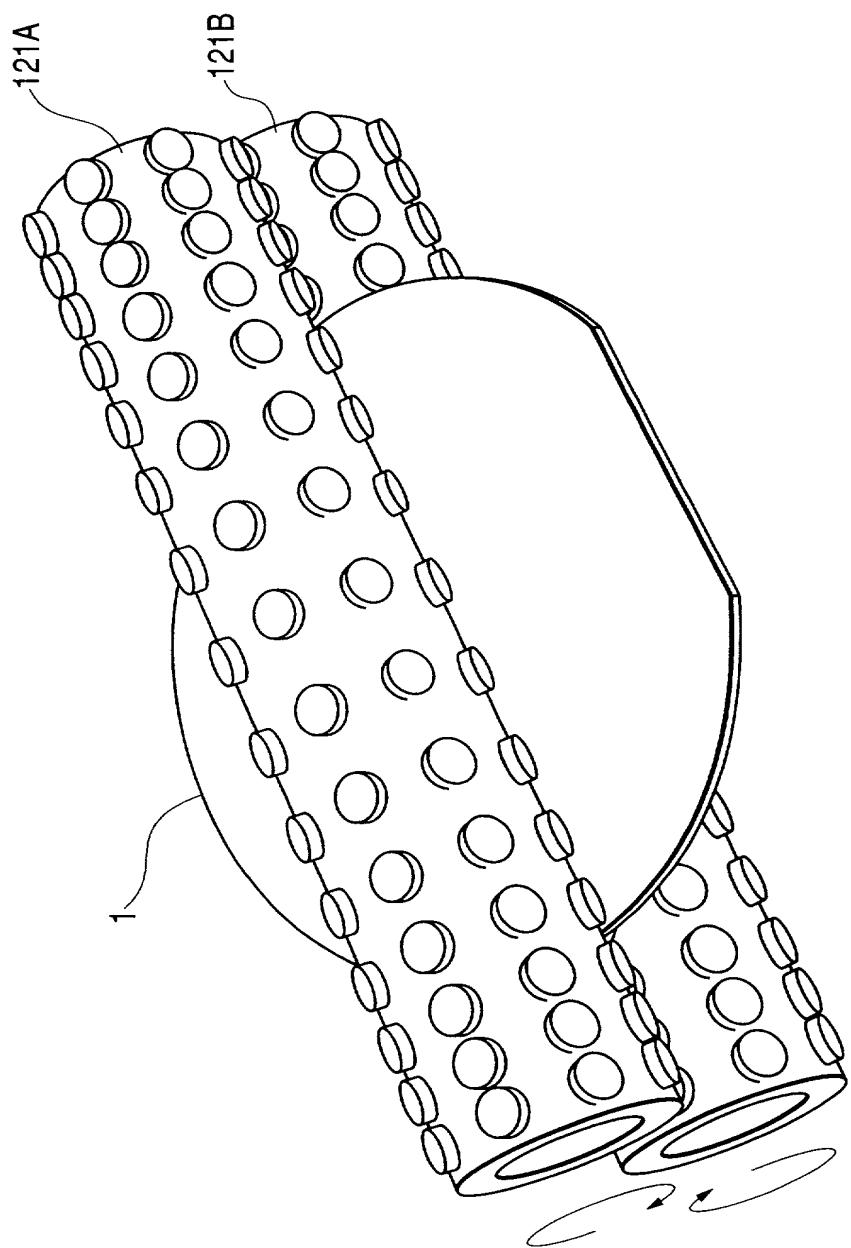


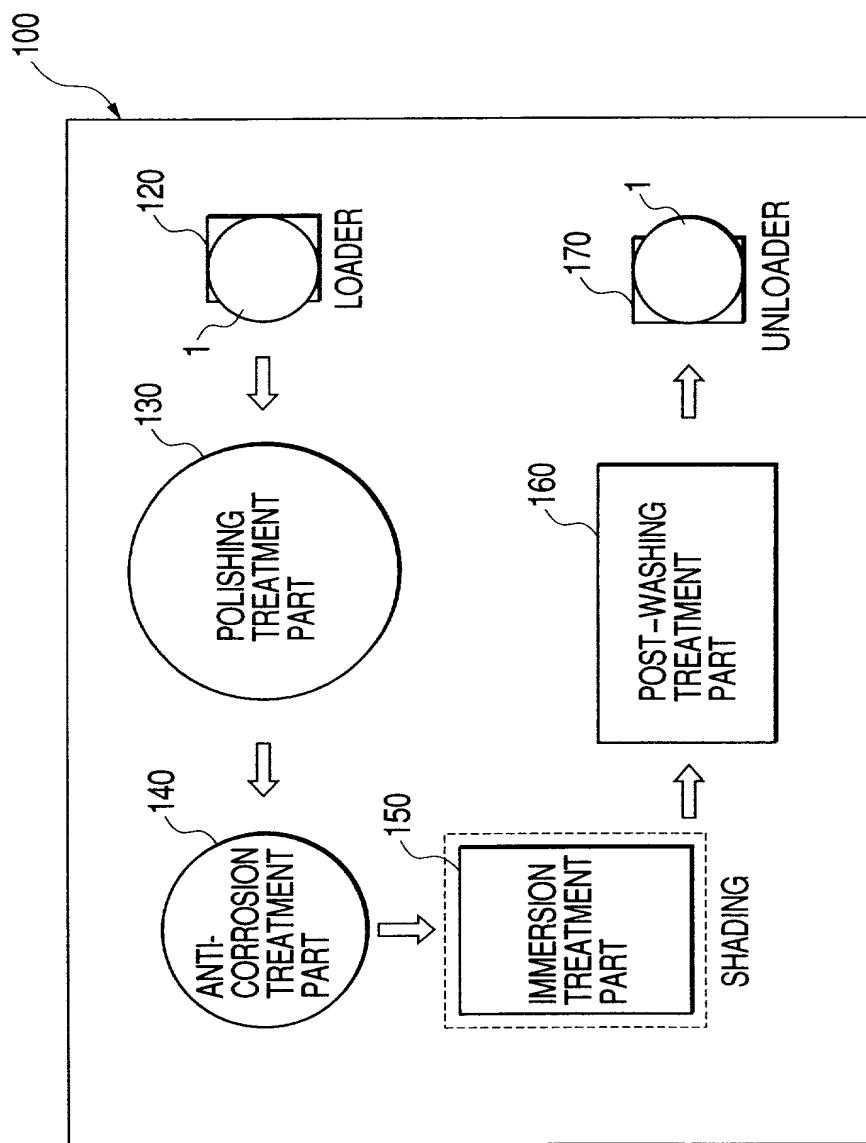
FIG. 12

FIG. 13

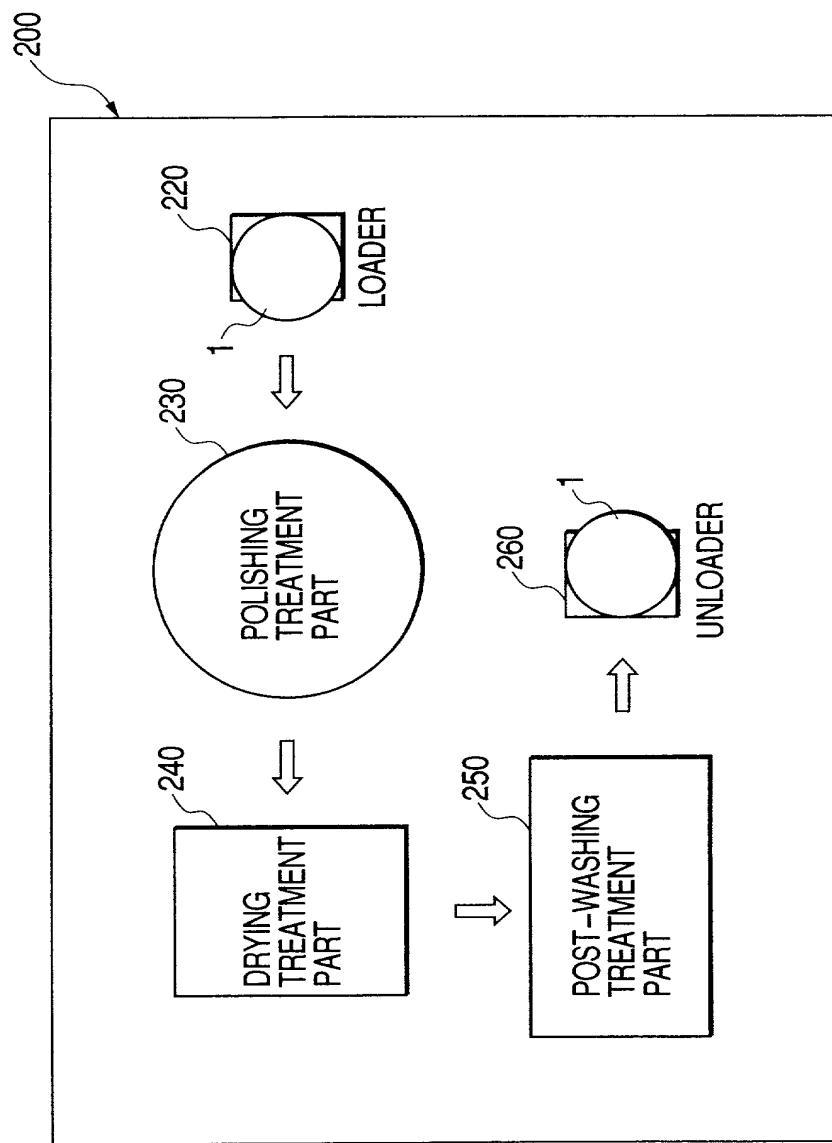


FIG. 14

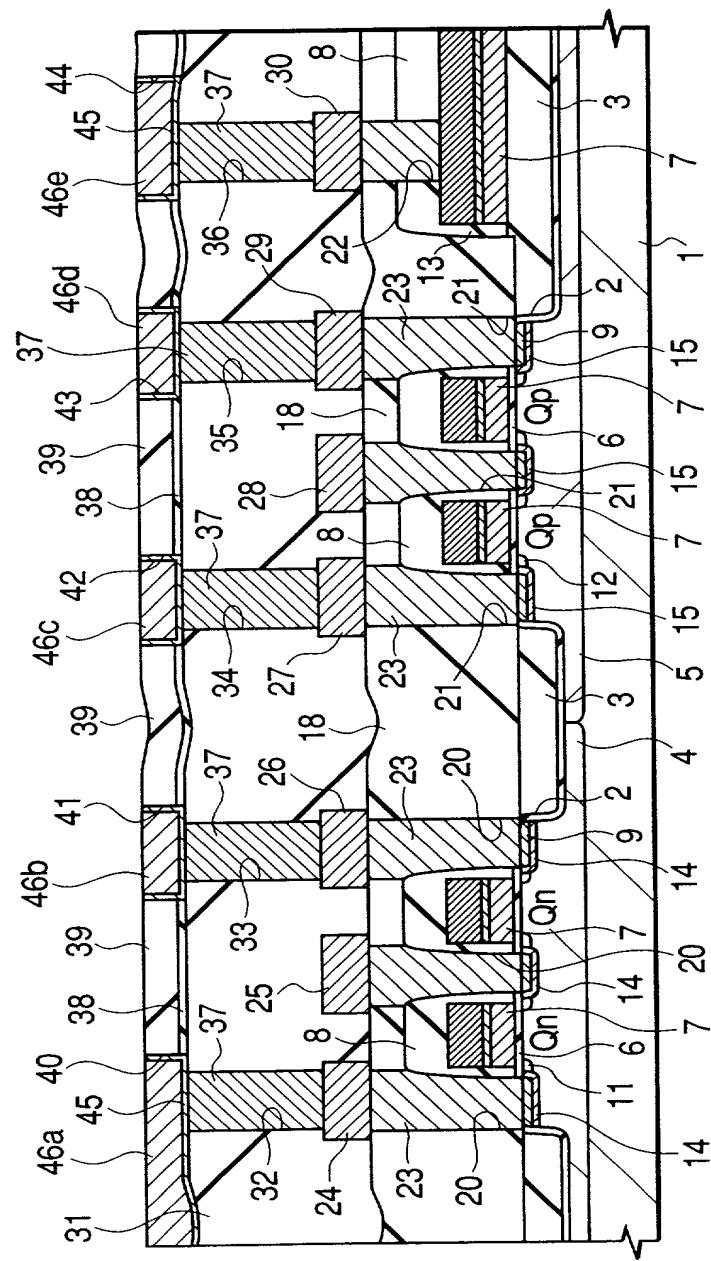


FIG. 15(a)

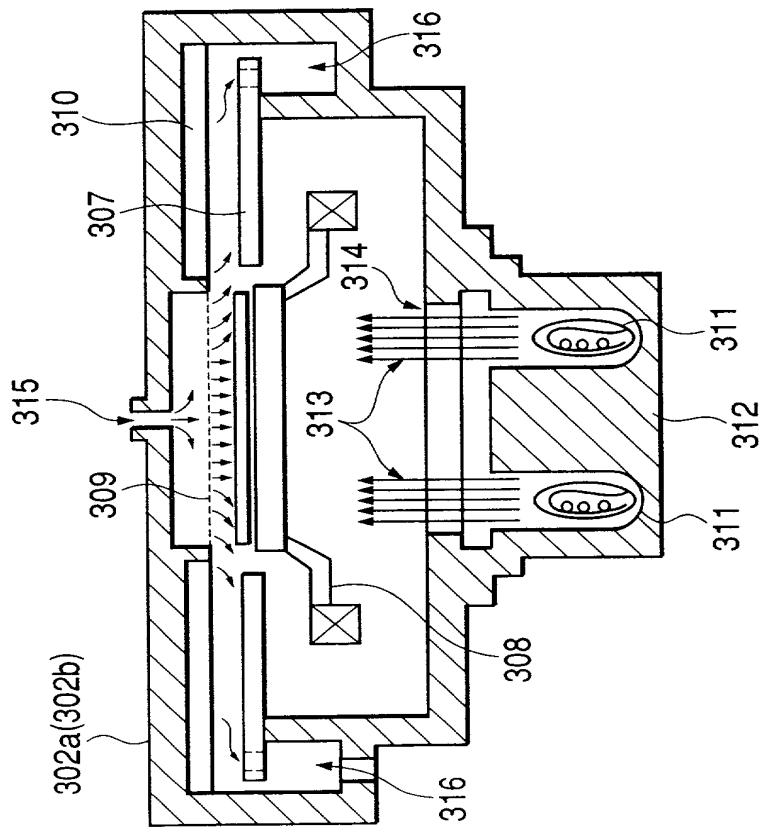


FIG. 15(b)

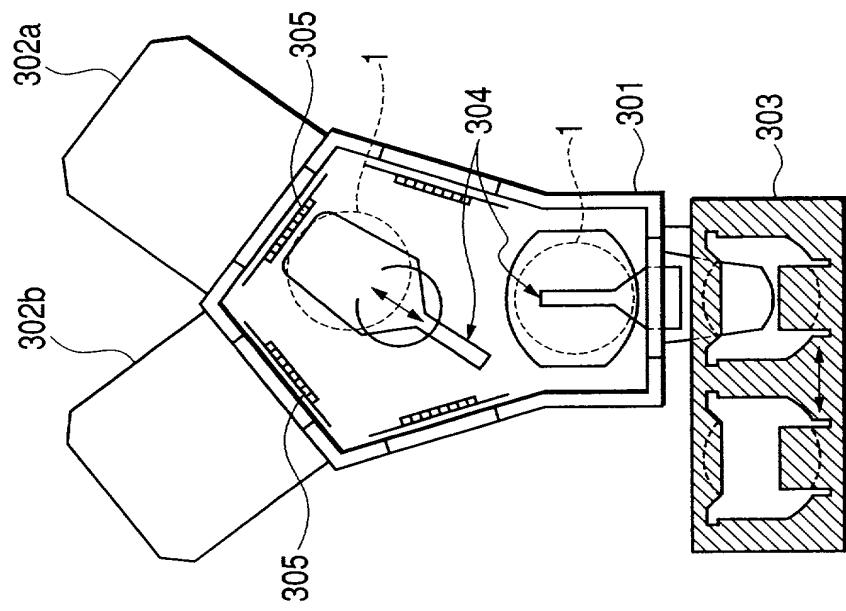


FIG. 16

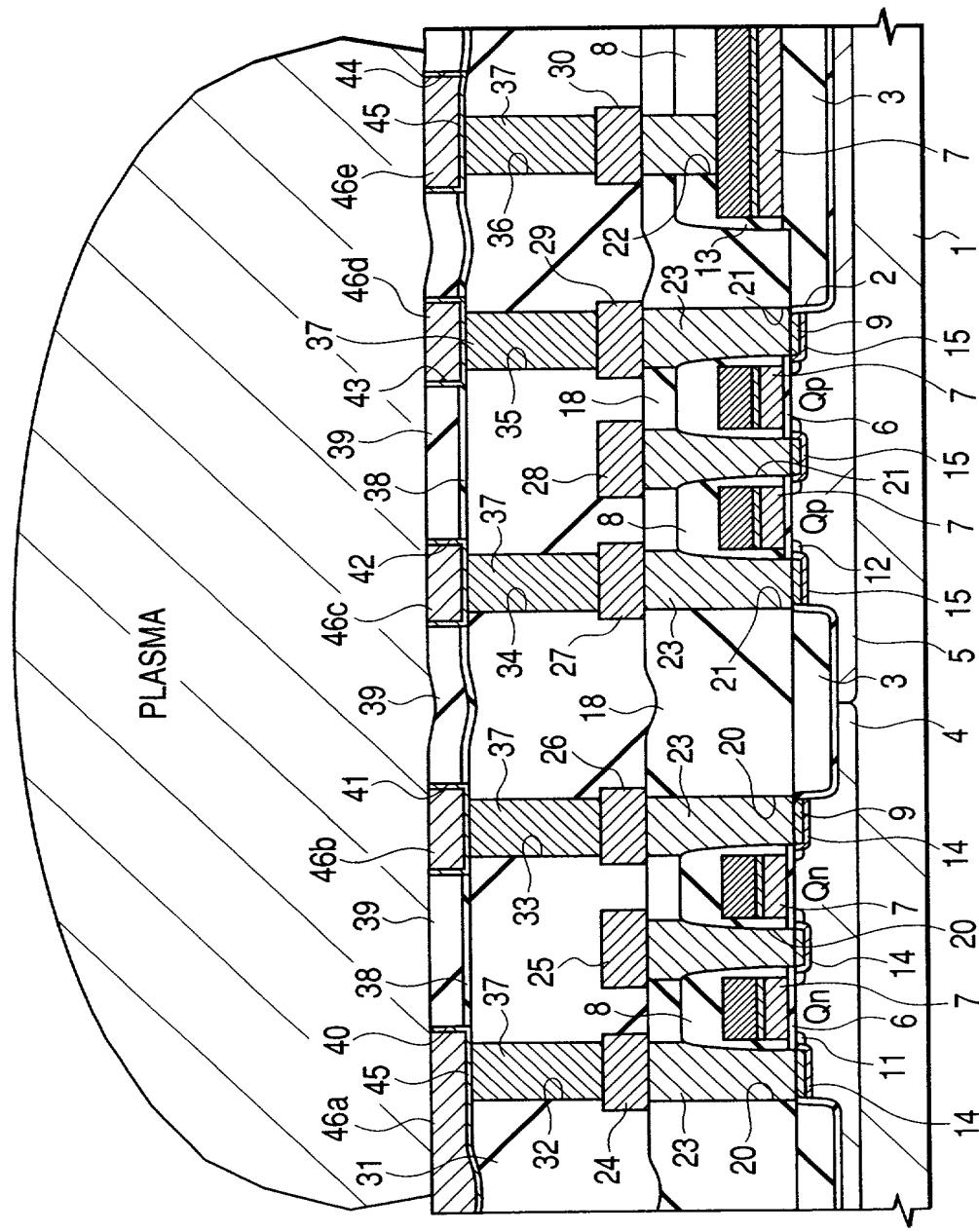


FIG. 17

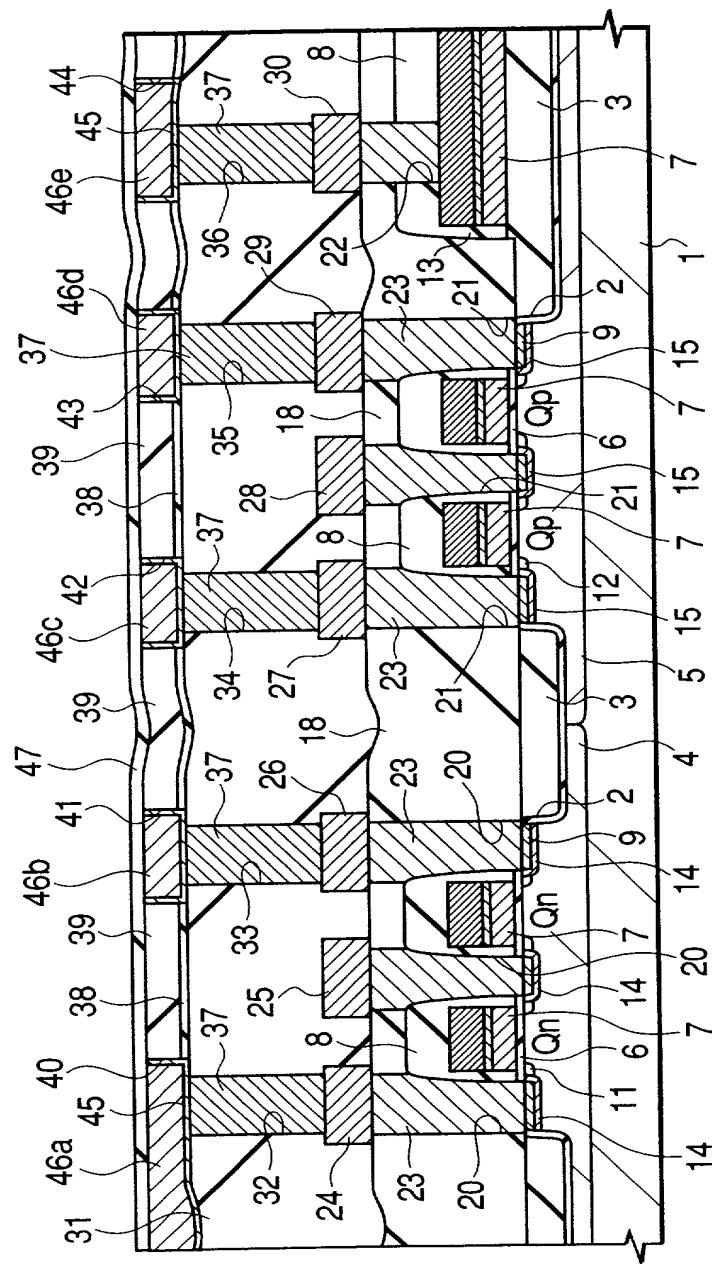


FIG. 18

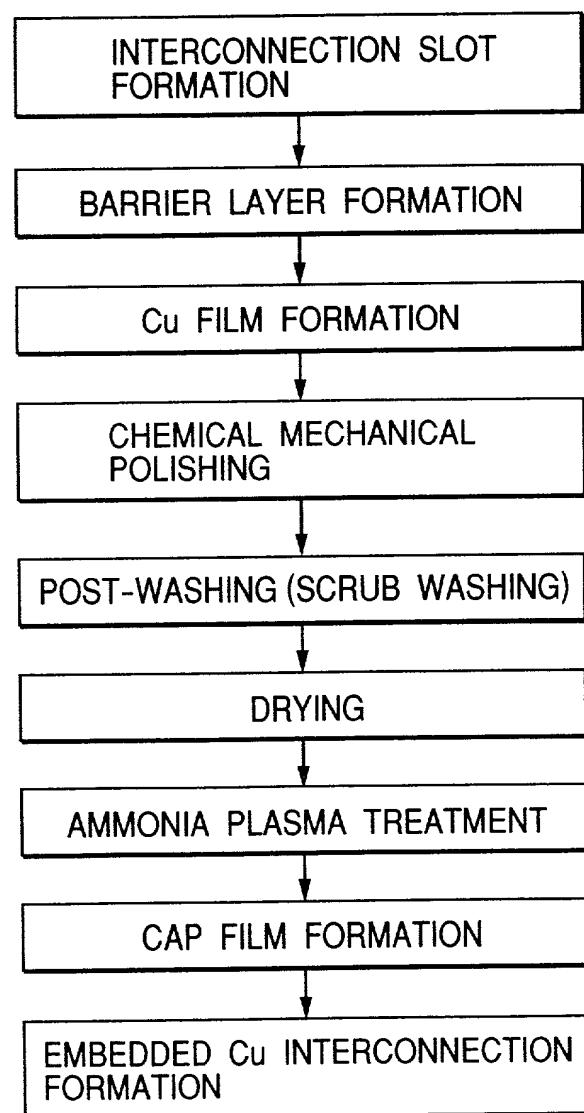


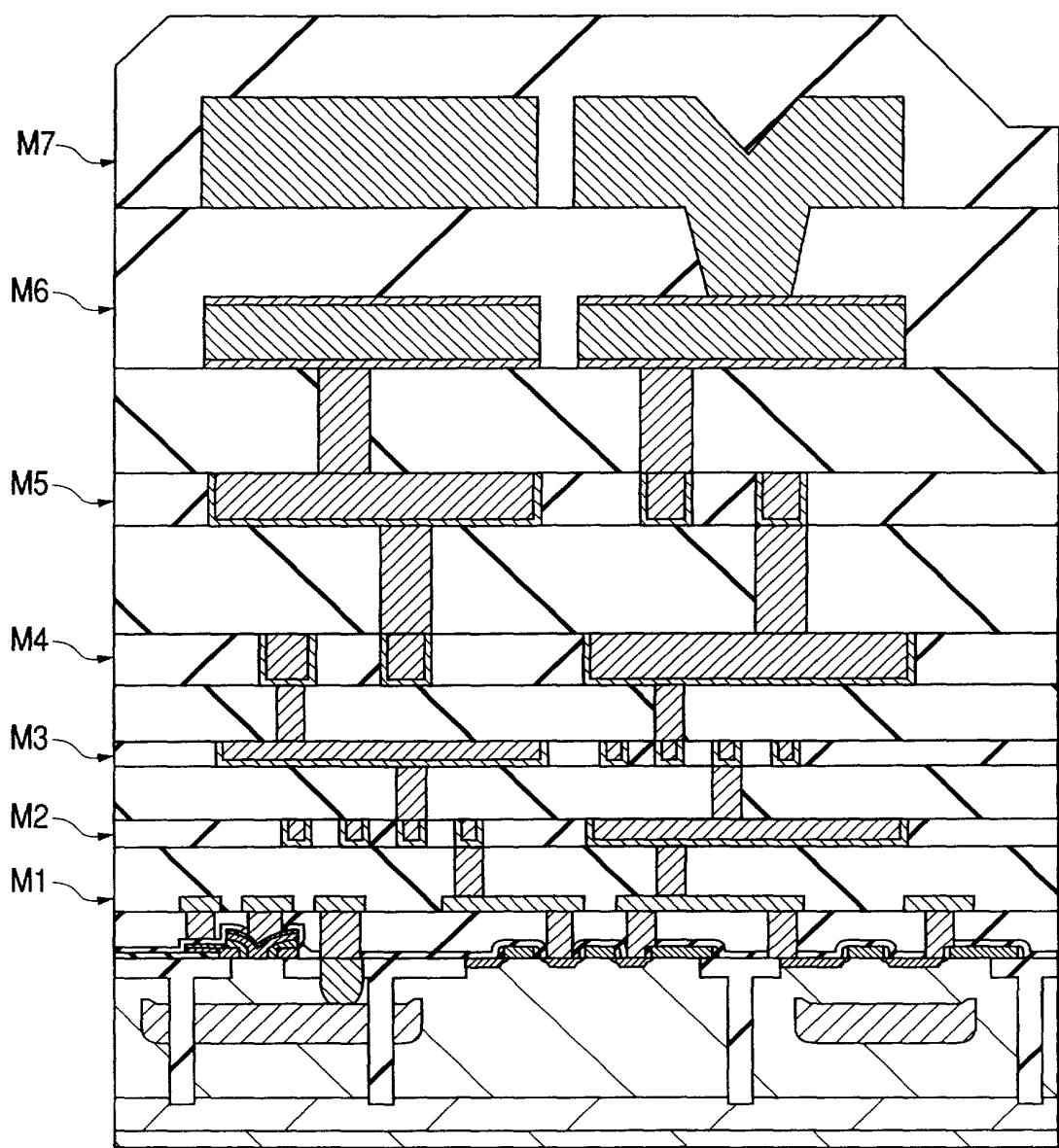
FIG. 19

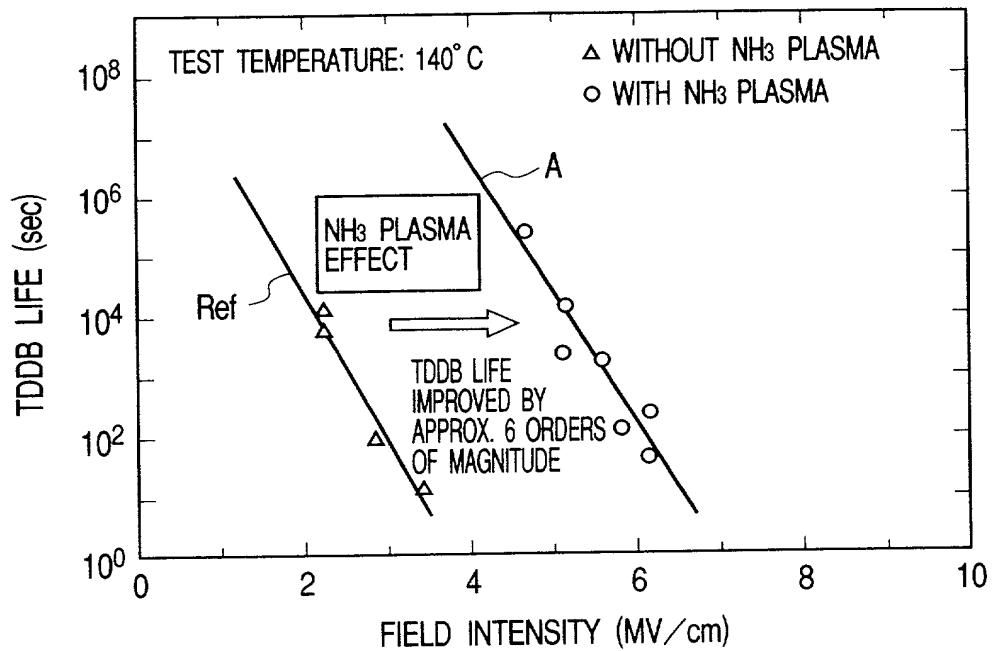
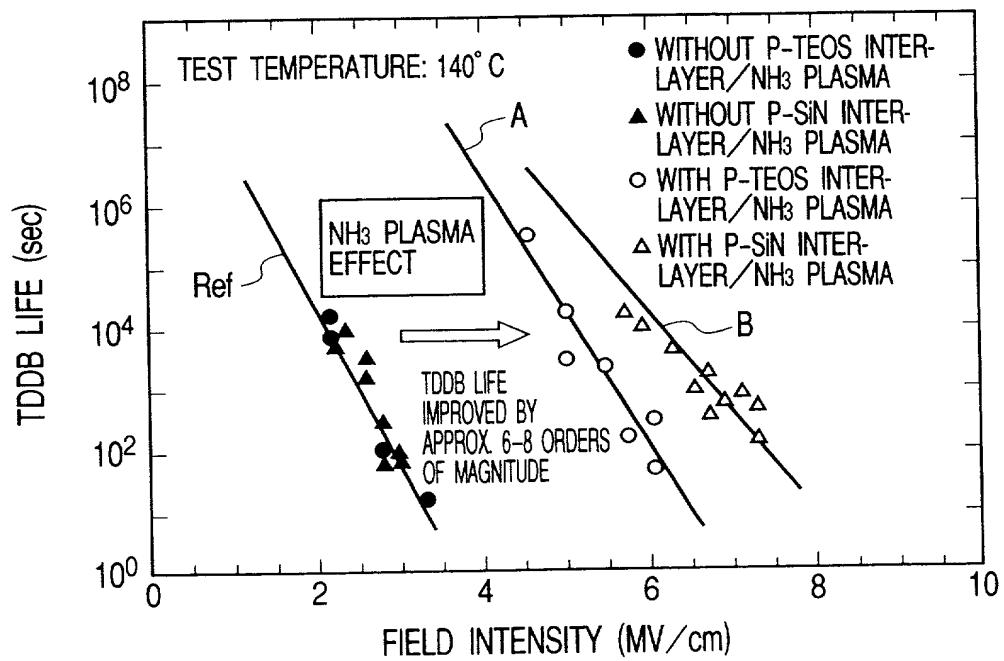
FIG. 20**FIG. 21**

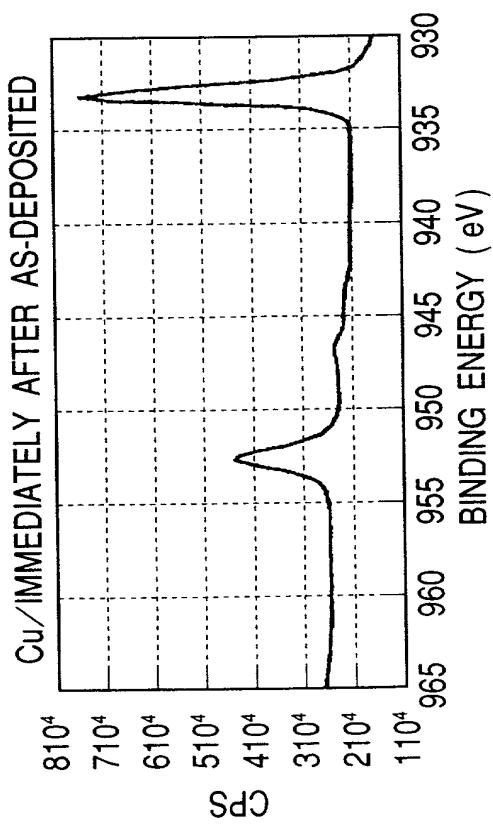
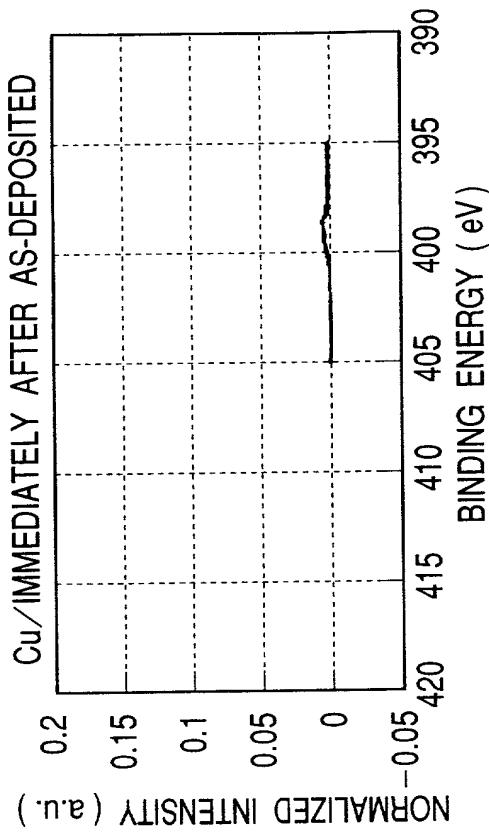
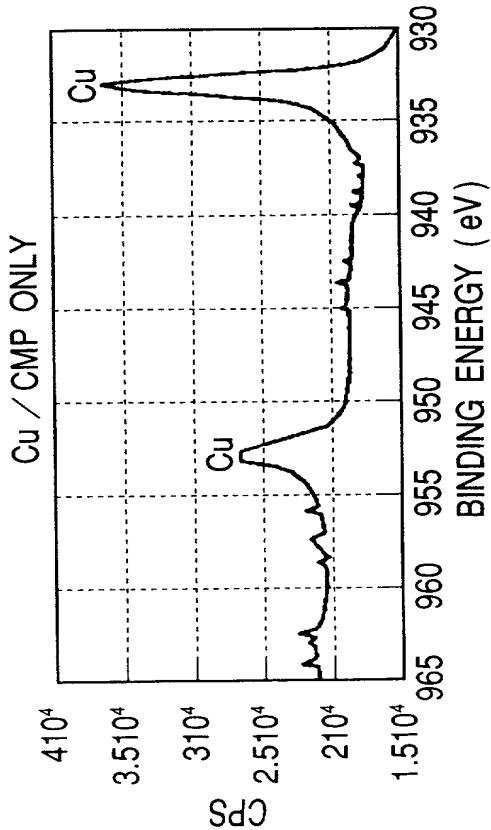
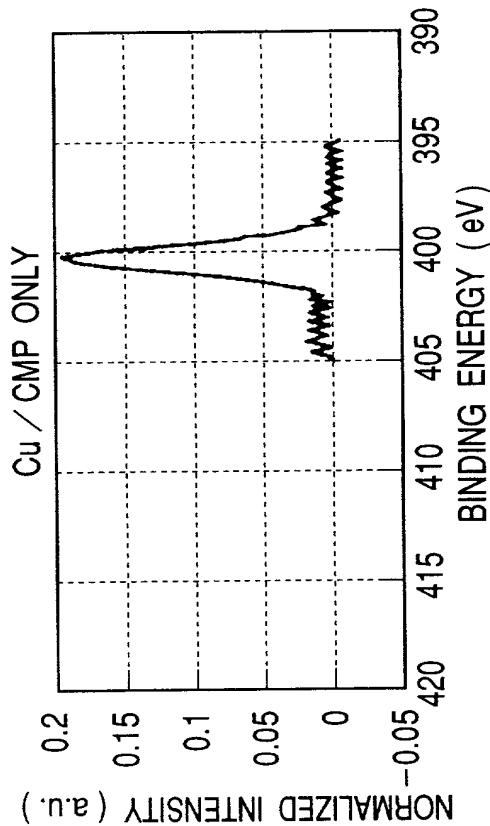
FIG. 22(a)**FIG. 22(b)****FIG. 22(c)****FIG. 22(d)**

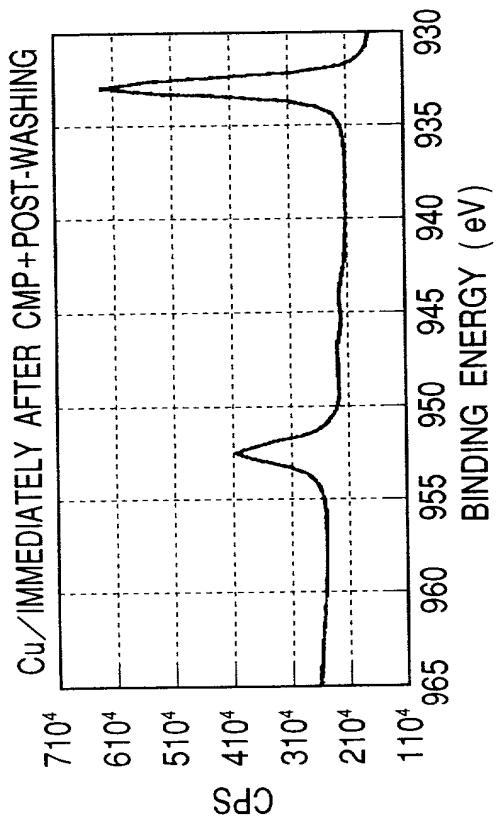
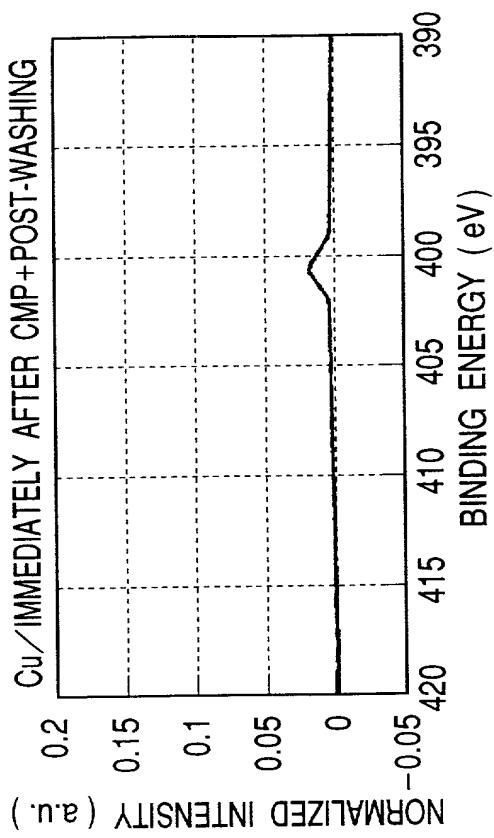
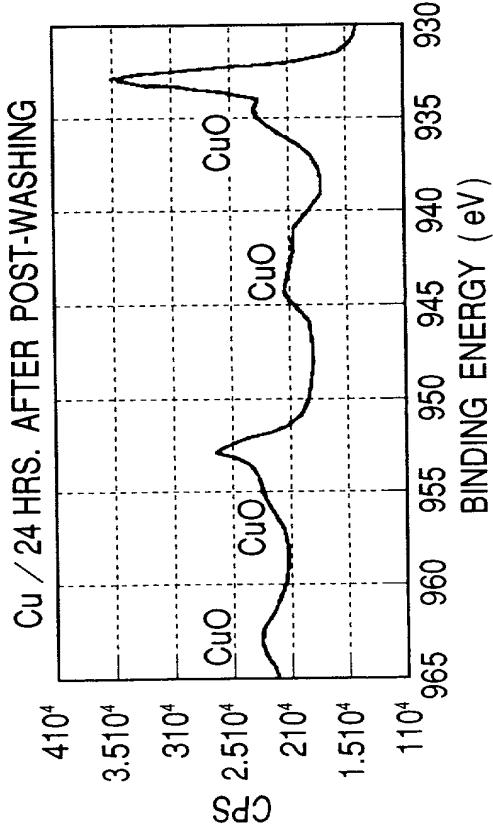
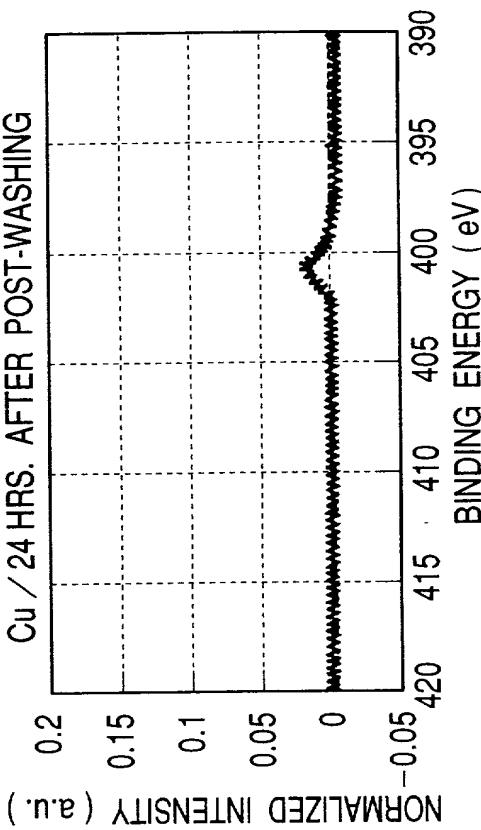
FIG. 23(a)**FIG. 23(b)****FIG. 23(c)****FIG. 23(d)**

FIG. 24(a)

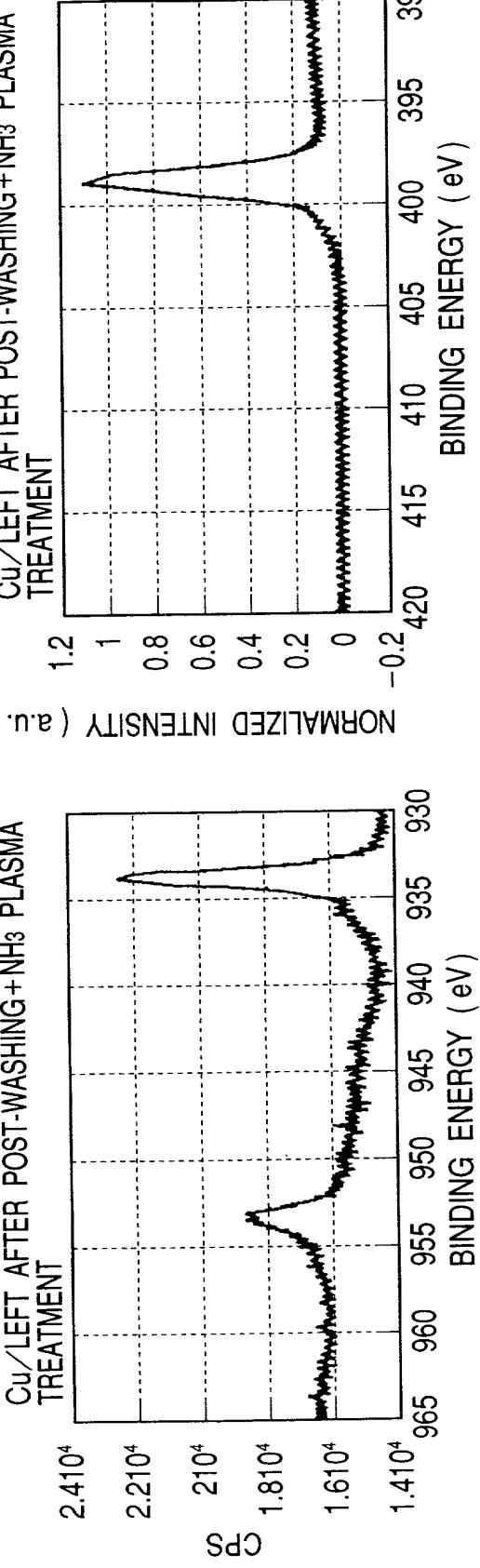


FIG. 24(b)

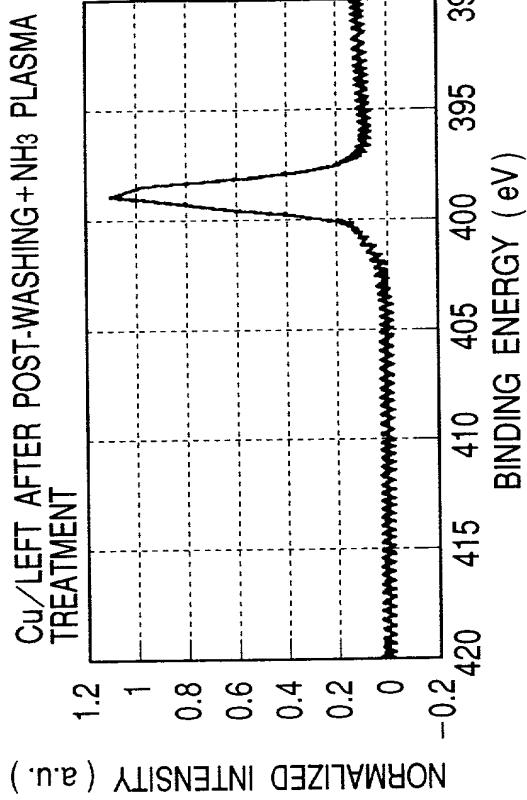


FIG. 24(c)

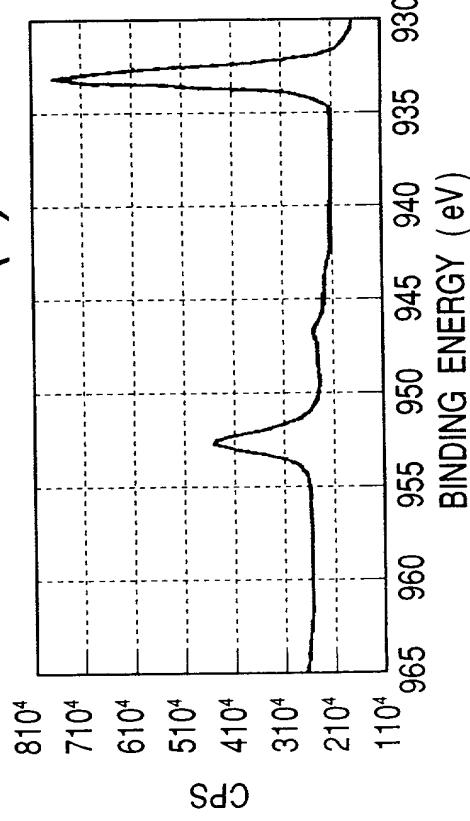


FIG. 24(d)

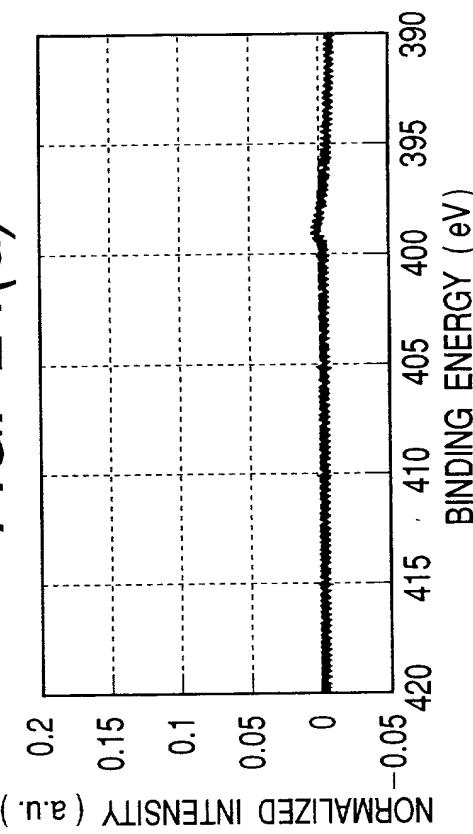
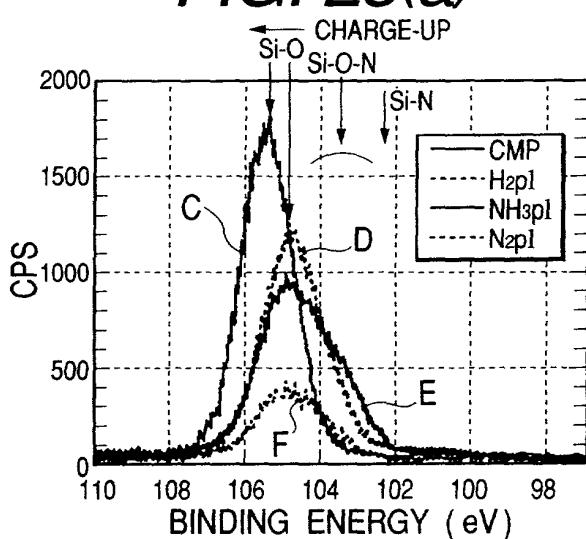
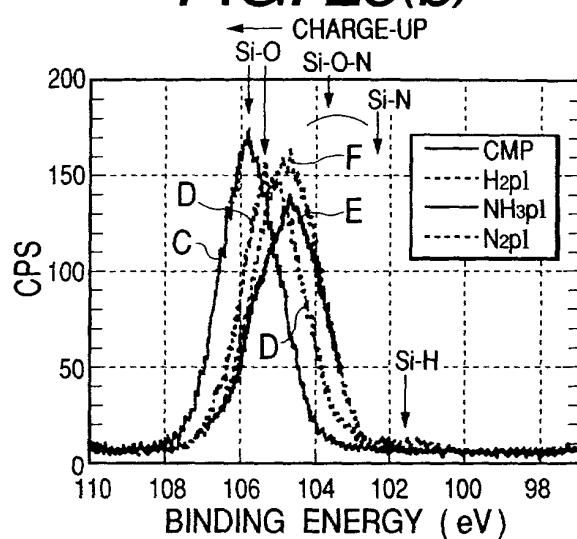
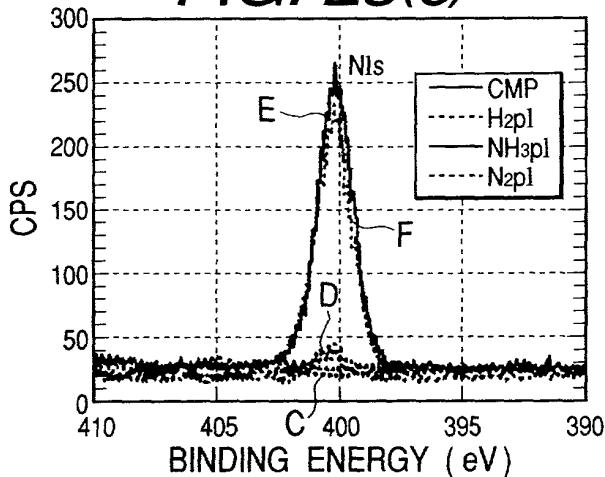
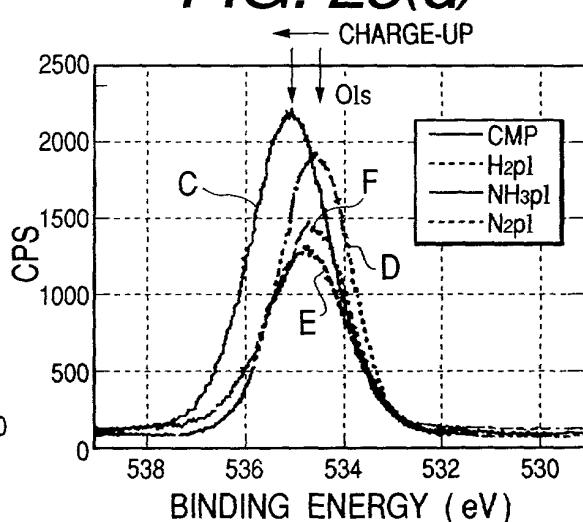
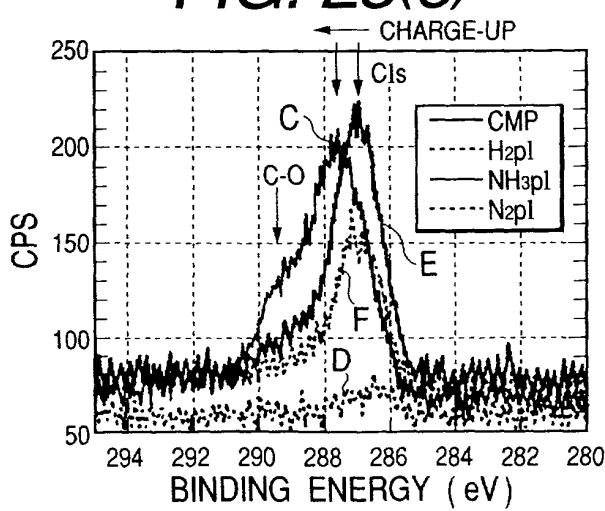
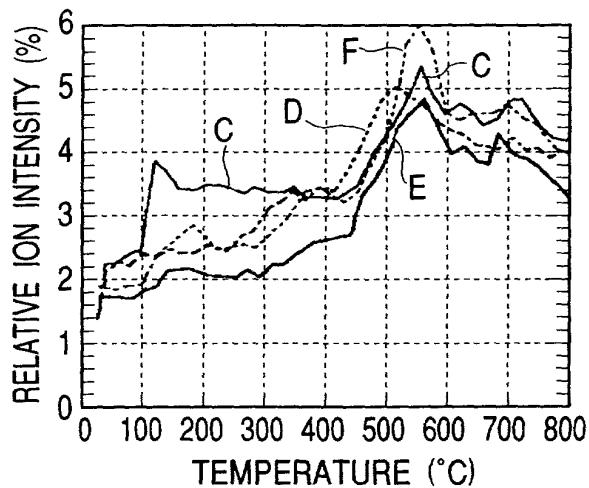
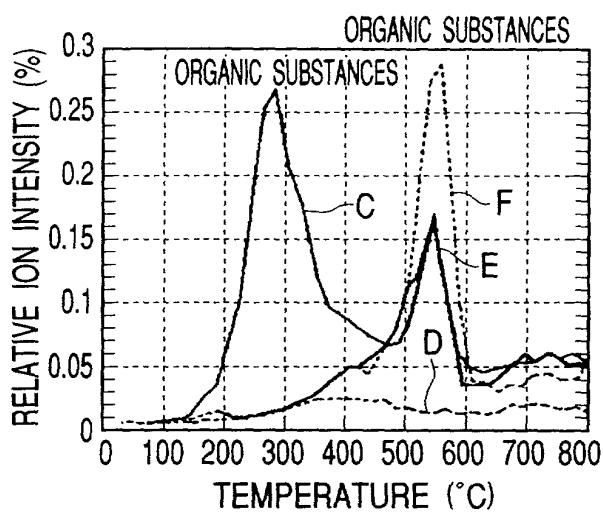


FIG. 25(a)**FIG. 25(b)****FIG. 25(c)****FIG. 25(d)****FIG. 25(e)****FIG. 25(f)**

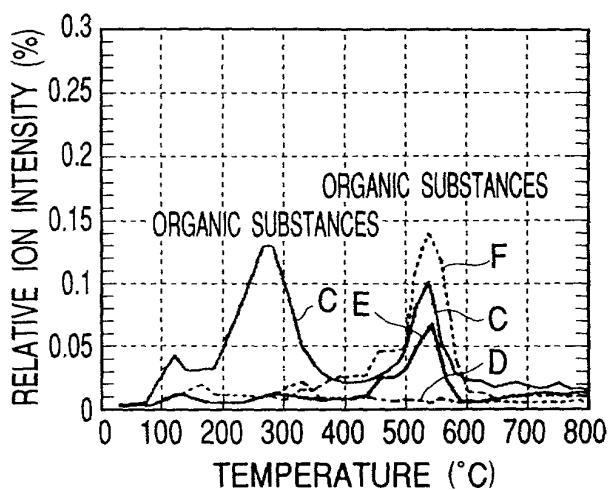
CONDITION	Si ₃ N _x
CMP	-
H ₂ pI	Si ₃ N _{1.08}
NH ₃ pI	Si ₃ N _{4.22}
N ₂ pI	Si ₃ N _{3.81}

FIG. 26(a)

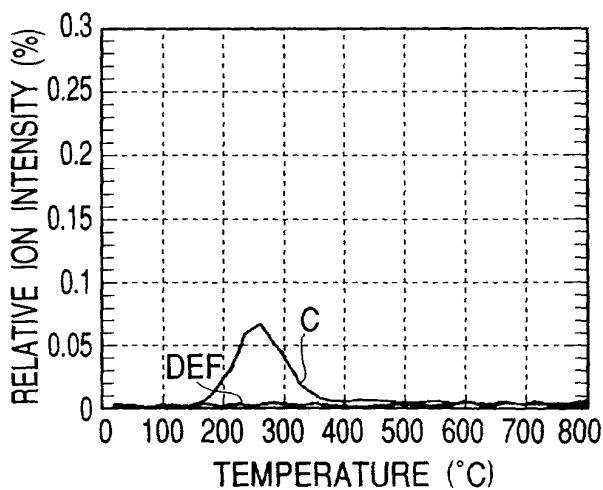
THERMAL DISSOCIATION OF HYDROGEN,
Ar-H $m/z=41$

FIG. 26(b)

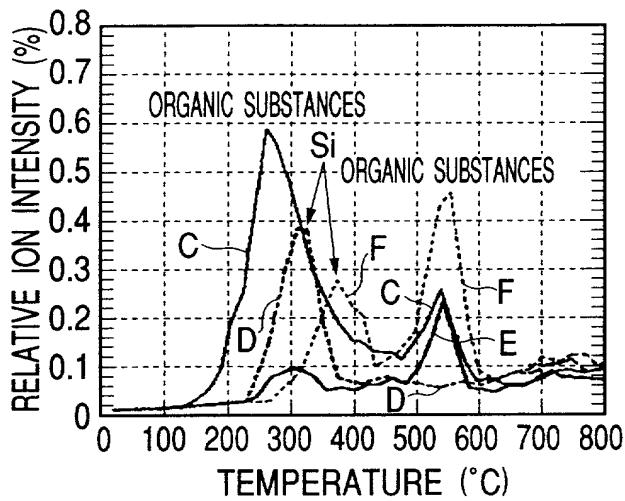
THERMAL DISSOCIATION OF ORGANIC
SUBSTANCES,
 $A(C_nH_{2n-1})$ C_2H_3 $m/z=27$

FIG. 26(c)

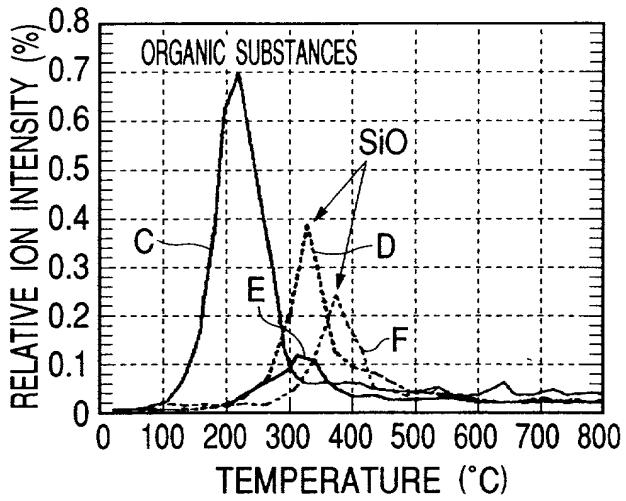
THERMAL DISSOCIATION OF ORGANIC
SUBSTANCES,
 $B(C_nH_{2n+1})$ C_4H_9 $m/z=57$

FIG. 26(d)

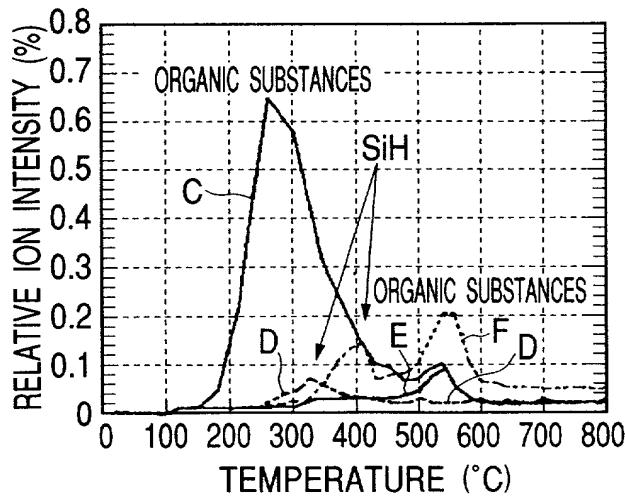
THERMAL DISSOCIATION OF ORGANIC
SUBSTANCES,
 $C(C_nH_{2n+1}O)$ C_3H_7O $m/z=59$

FIG. 27(a)

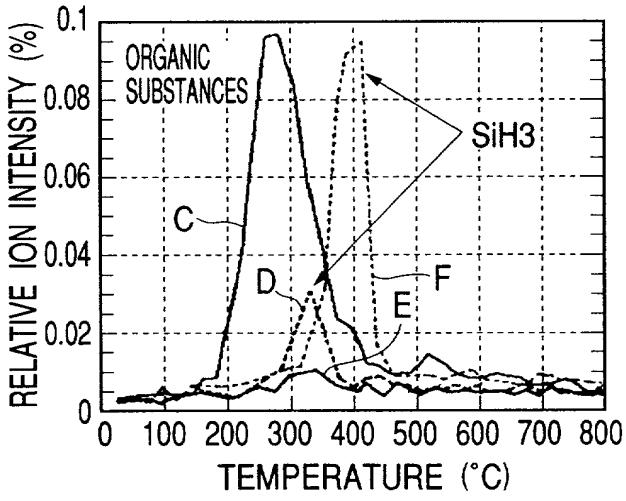
THERMAL DISSOCIATION OF Si
AND ORGANIC SUBSTANCES
Si, C_2H_4 $m/z=28$

FIG. 27(b)

THERMAL DISSOCIATION OF SiO
AND ORGANIC SUBSTANCES
SiO, C_3H_6 $m/z=44$

FIG. 27(c)

THERMAL DISSOCIATION OF SiH
AND ORGANIC SUBSTANCES
SiH, C_2H_5 $m/z=29$

FIG. 27(d)

THERMAL DISSOCIATION OF SiH₃
AND ORGANIC SUBSTANCES
SiH₃ $m/z=31$

FIG. 28

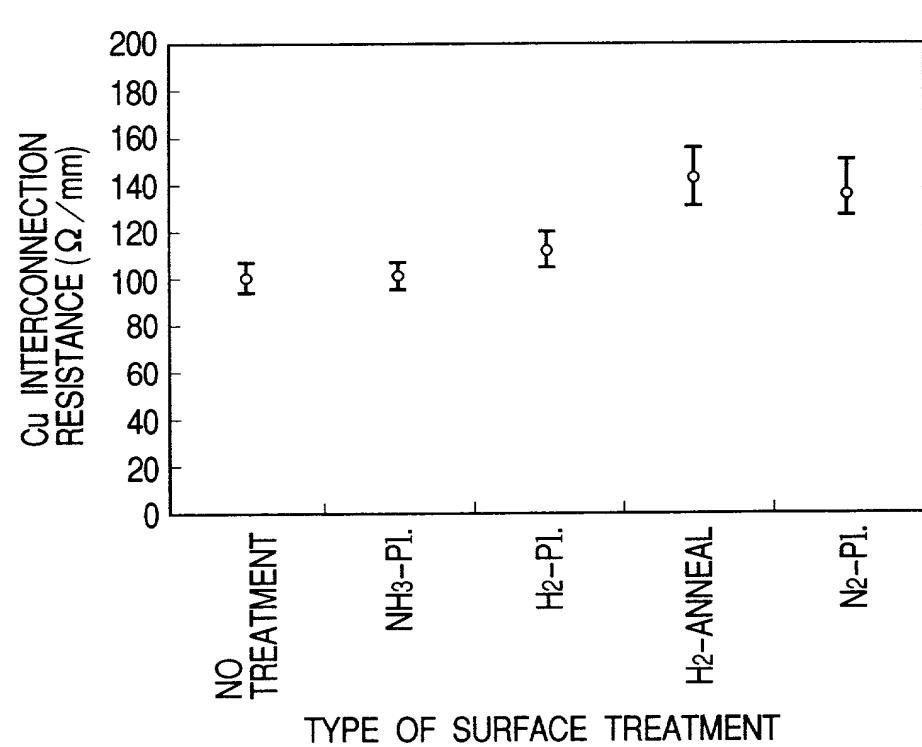


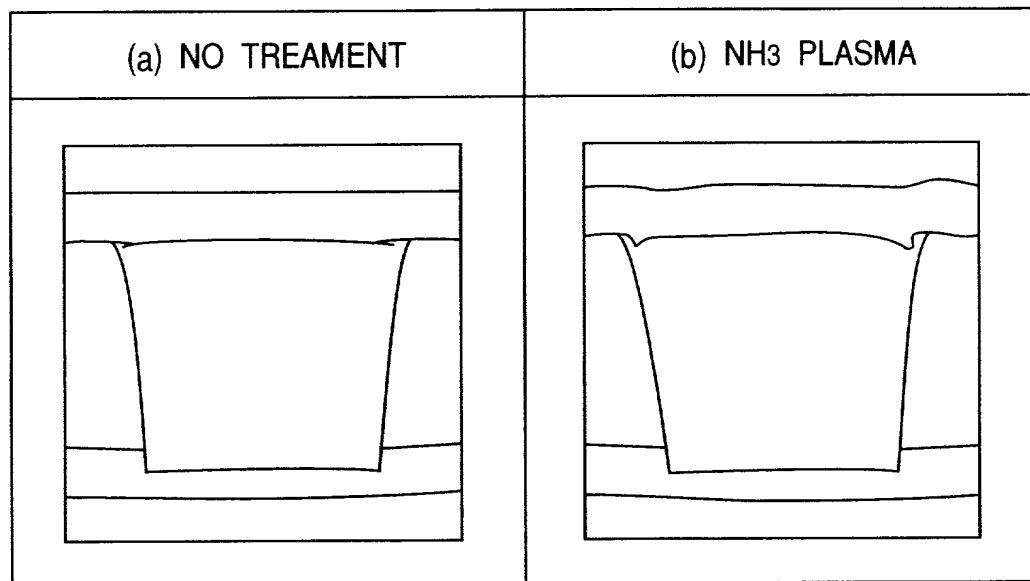
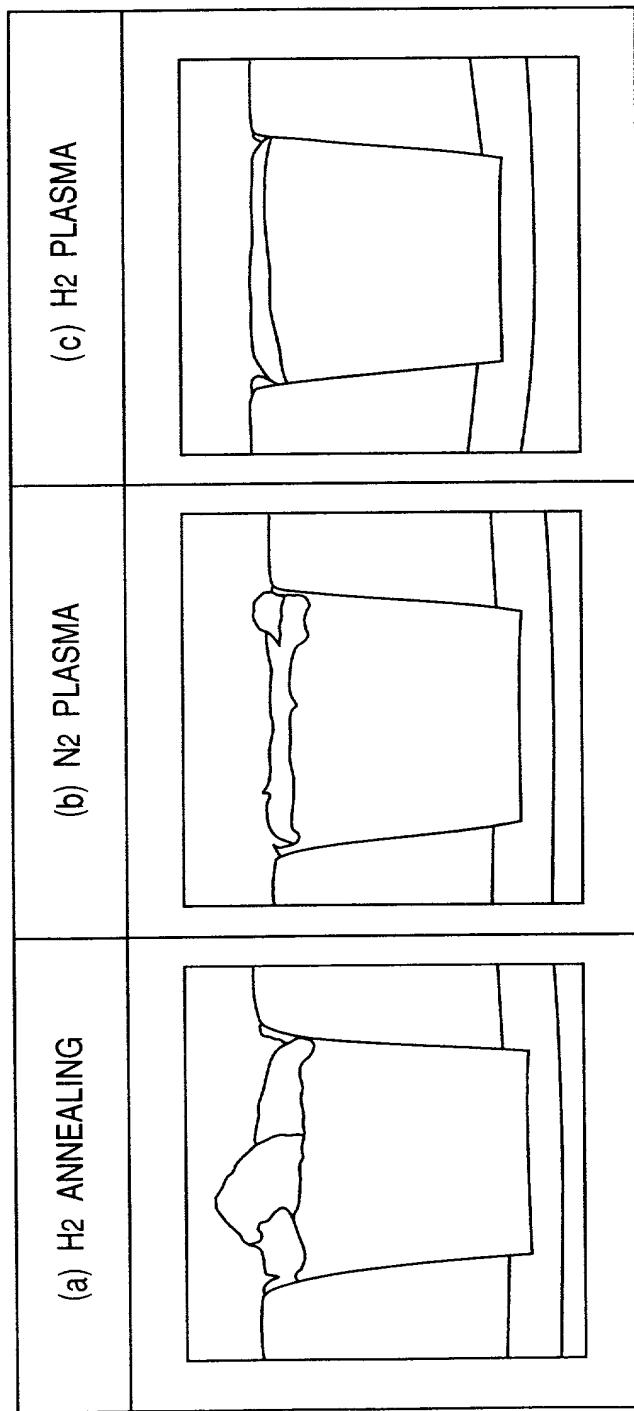
FIG. 29

FIG. 30



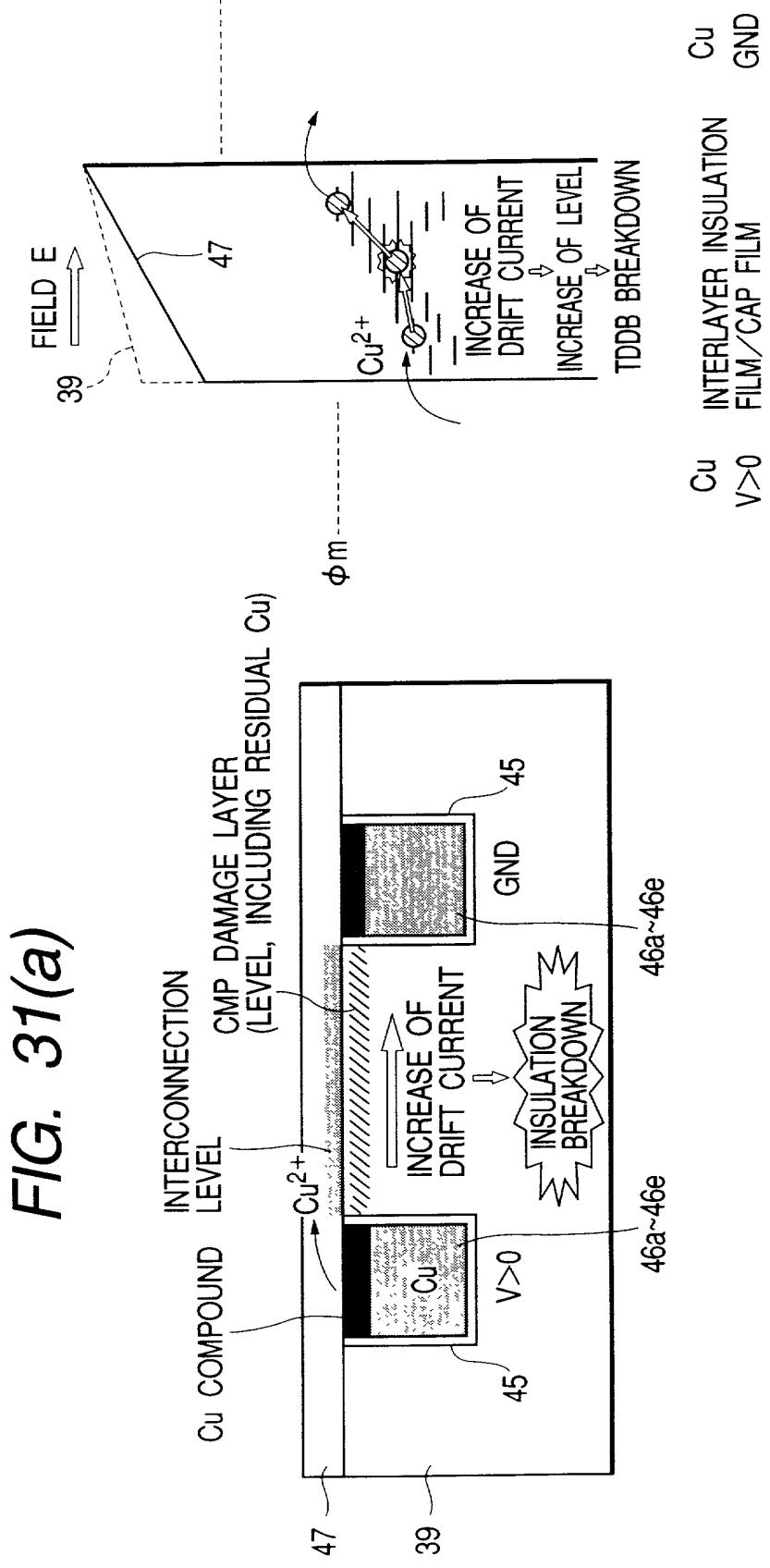


FIG. 32(a)

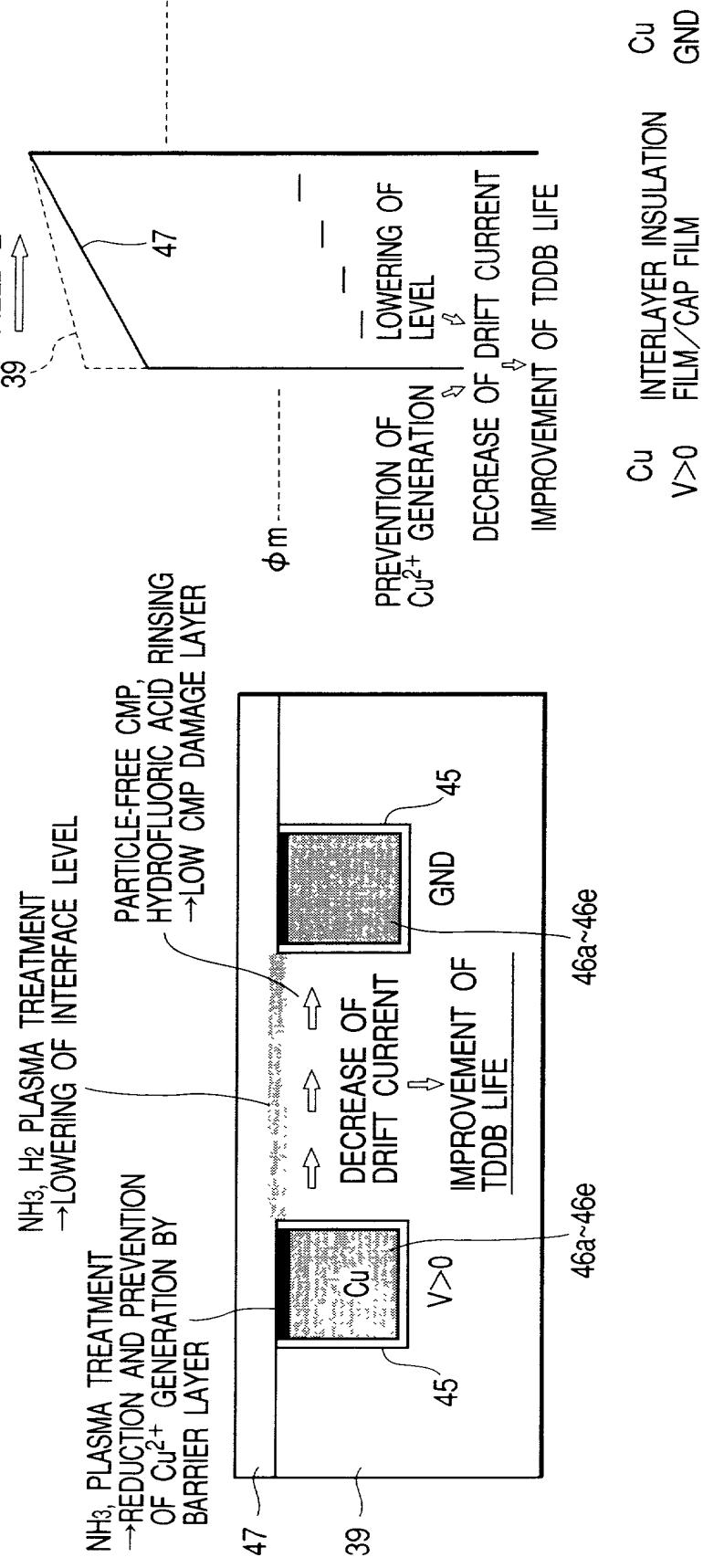


FIG. 32(b)

FIG. 33

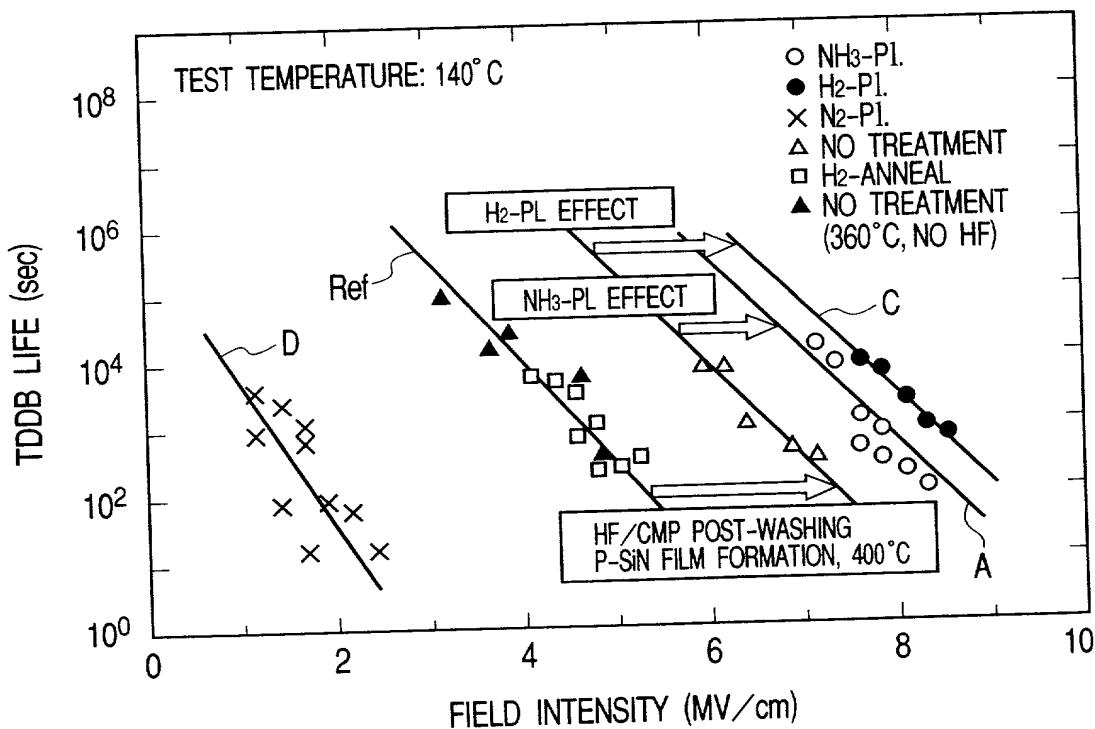


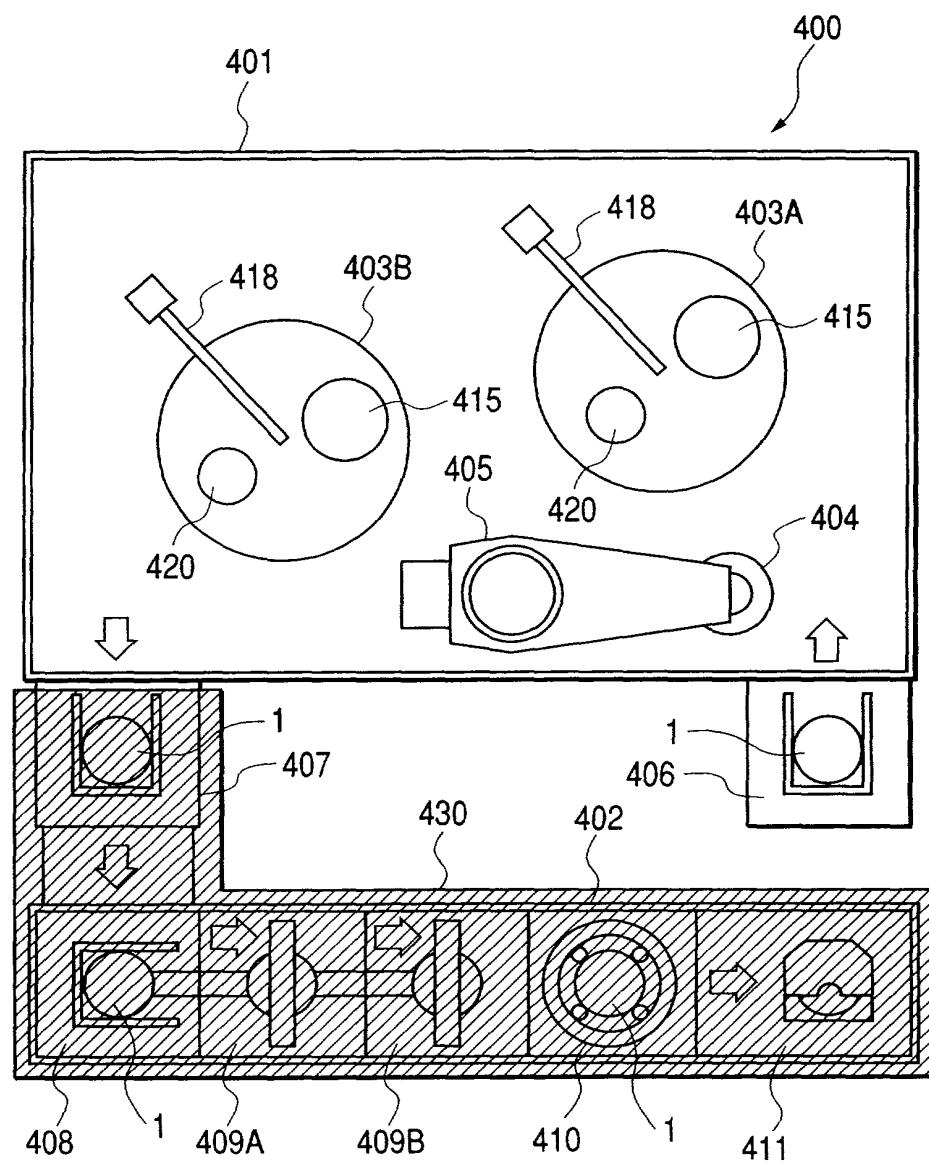
FIG. 34

FIG. 35

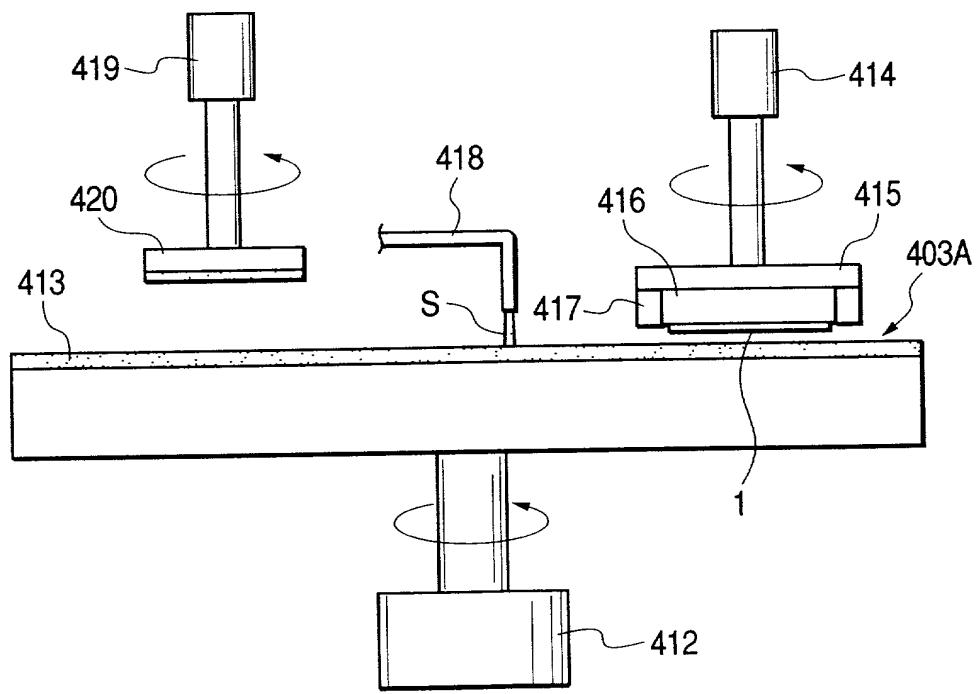


FIG. 36

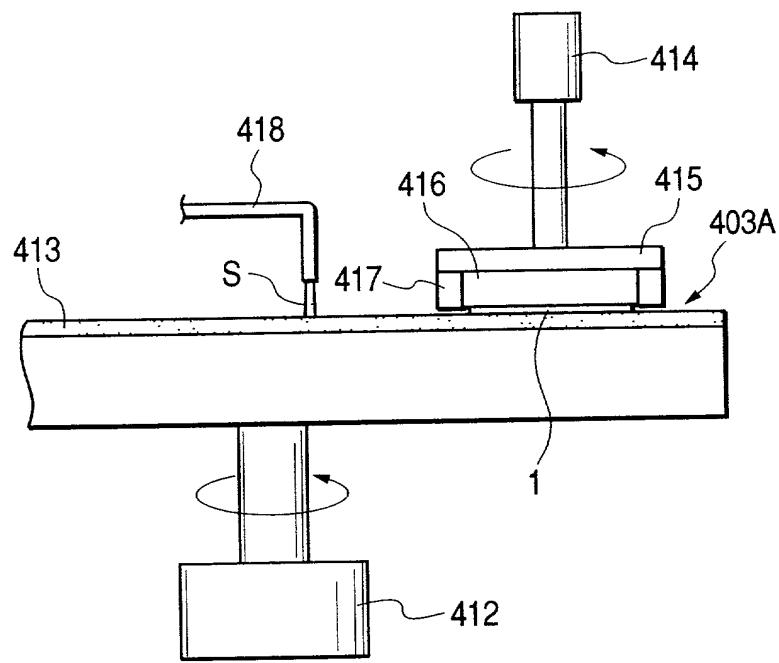


FIG. 37

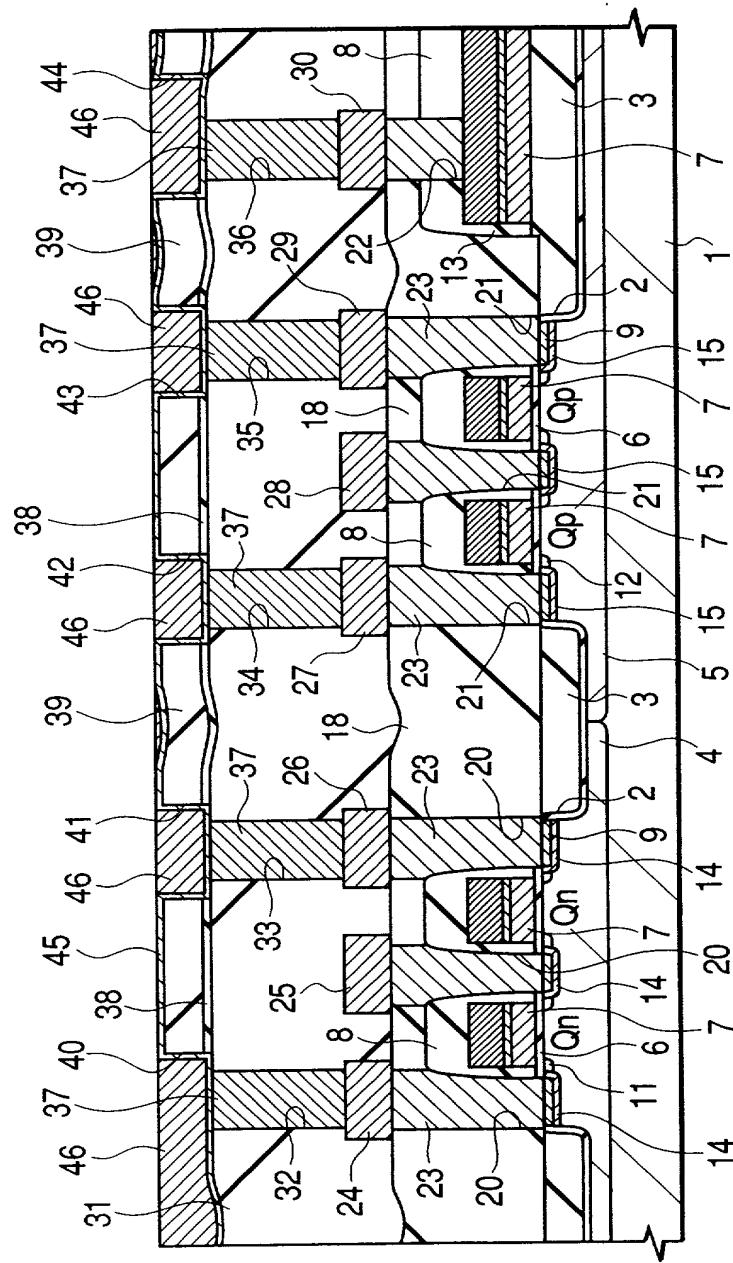


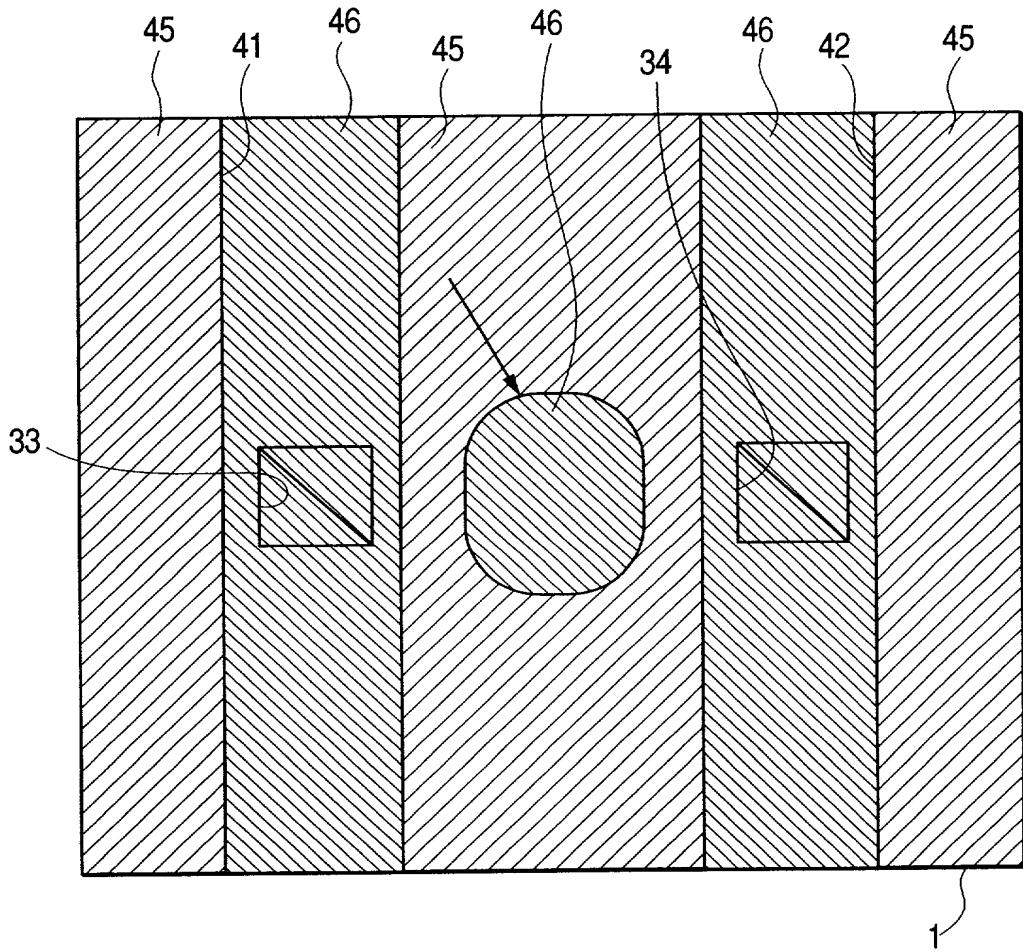
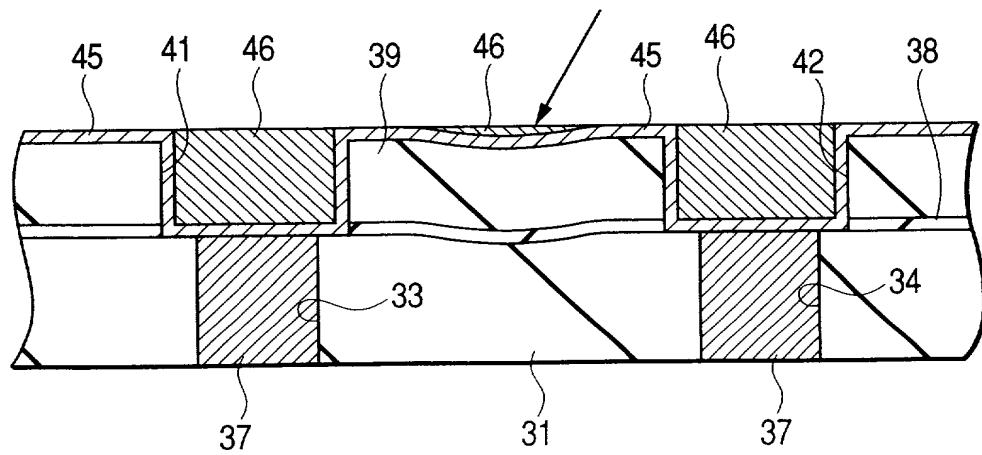
FIG. 38(a)***FIG. 38(b)***

FIG. 39

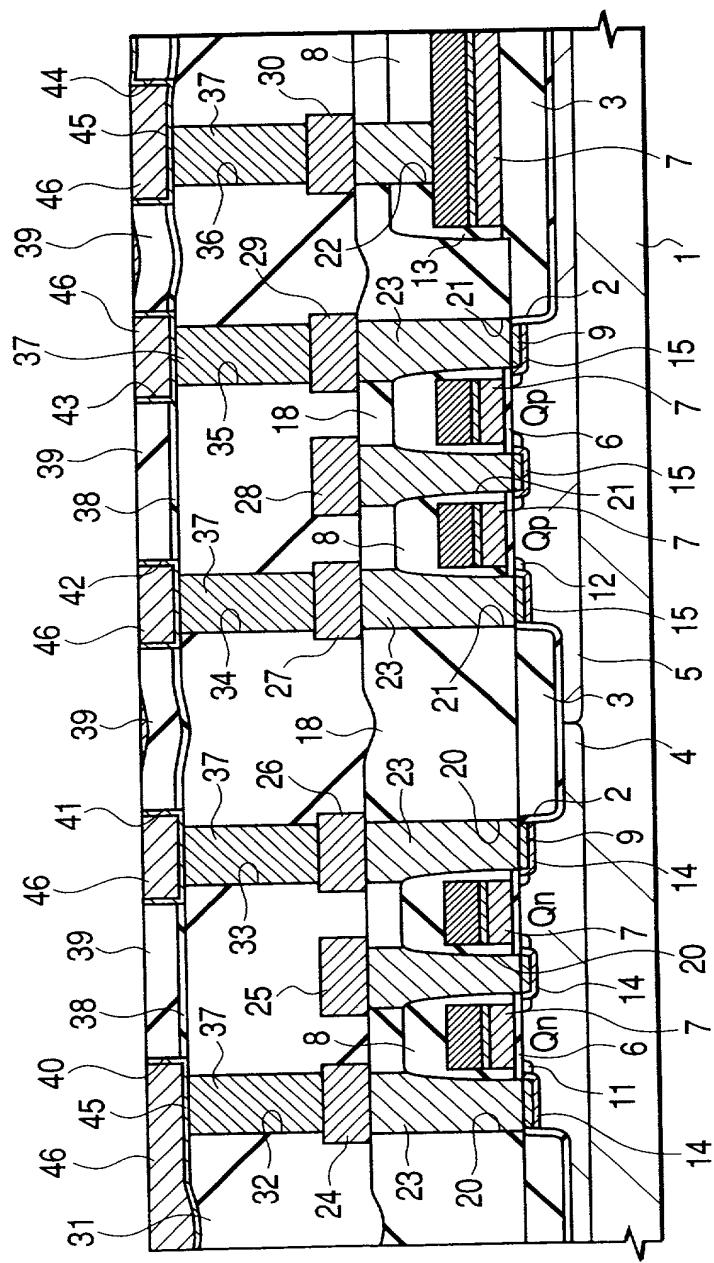


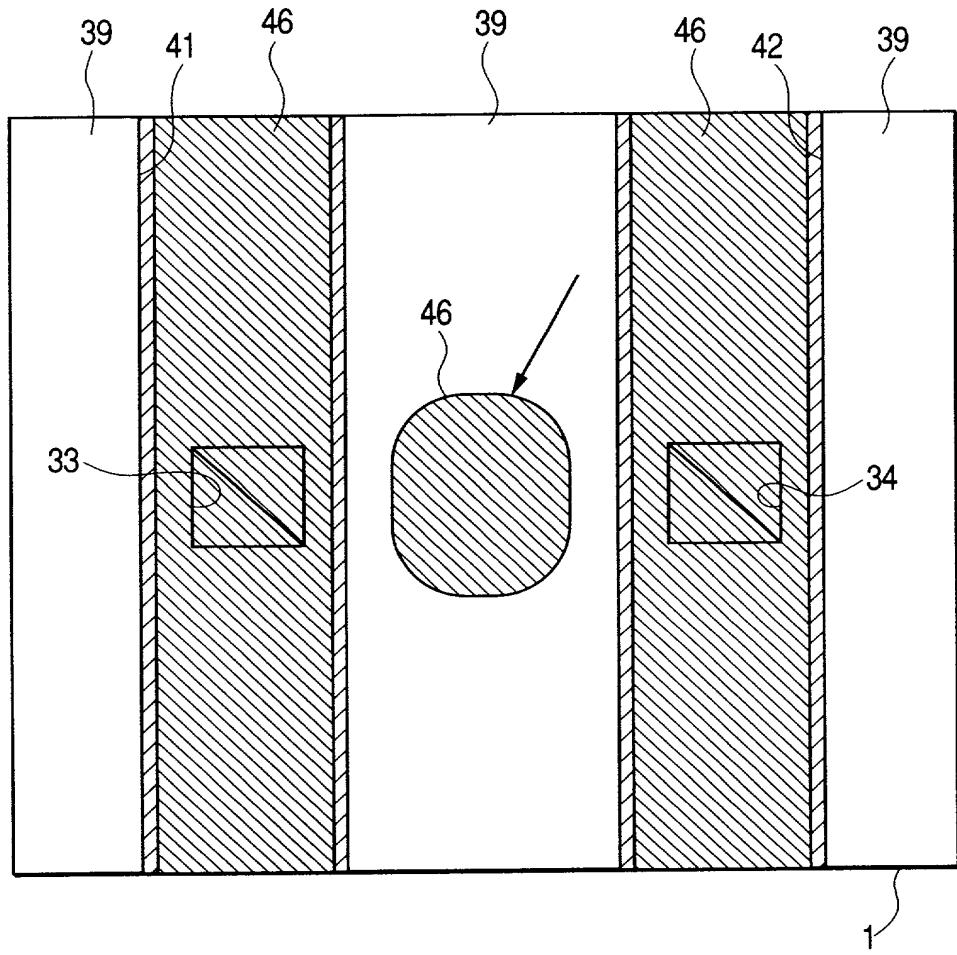
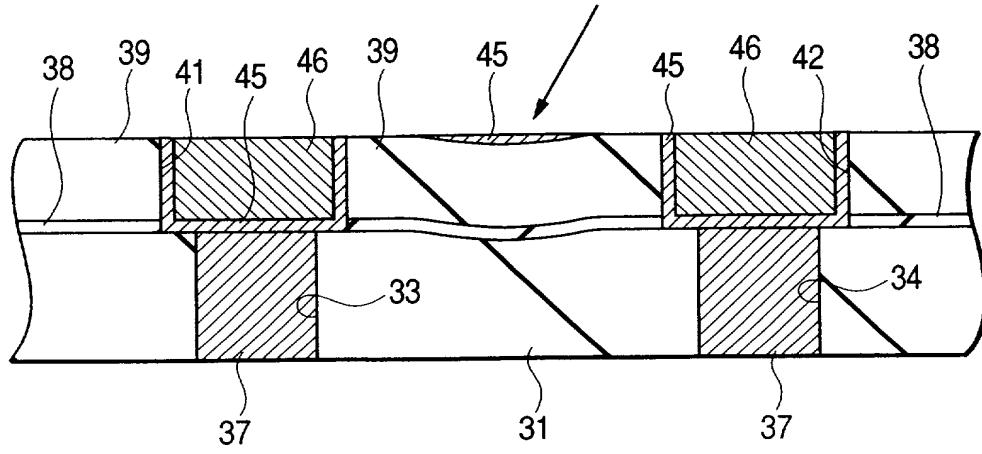
FIG. 40(a)***FIG. 40(b)***

FIG. 41

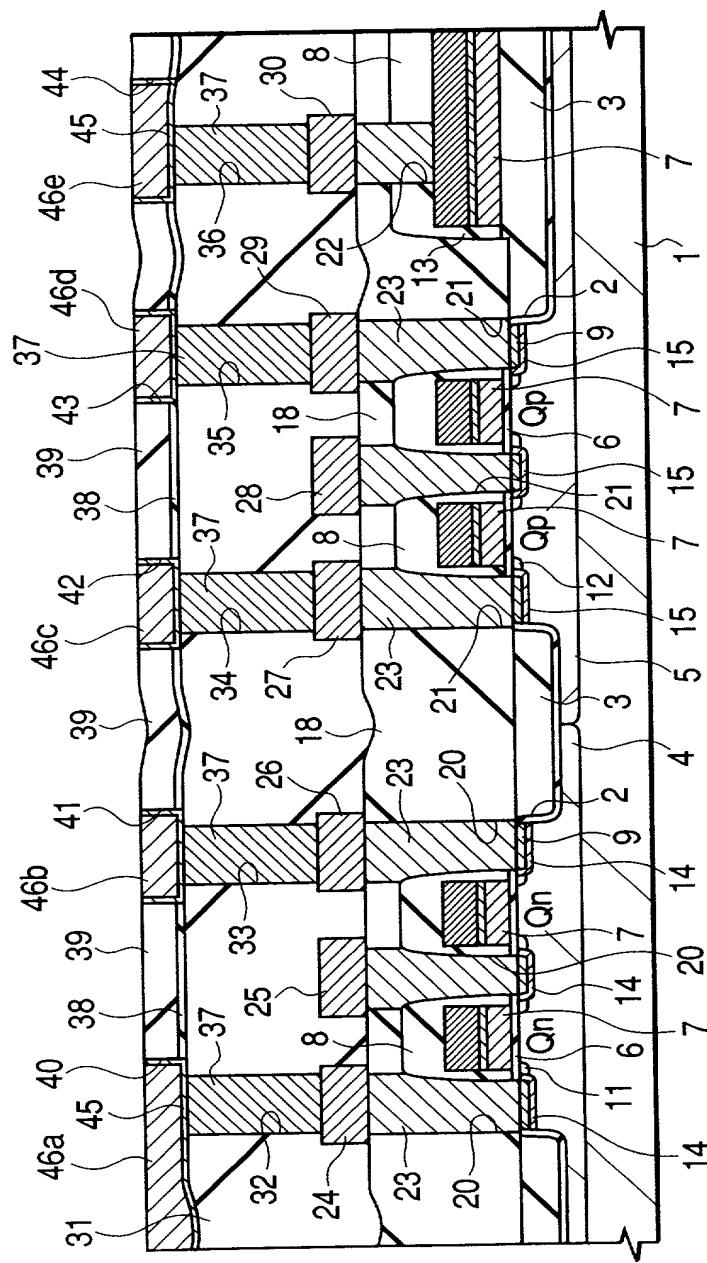


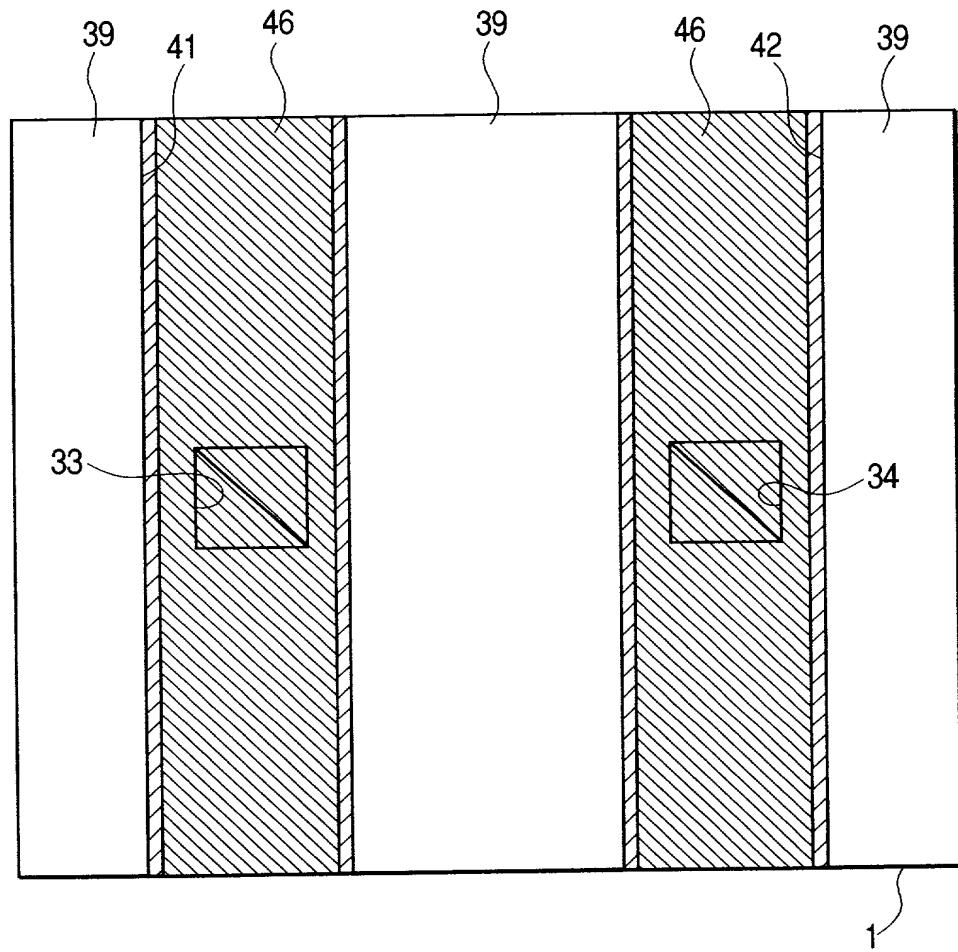
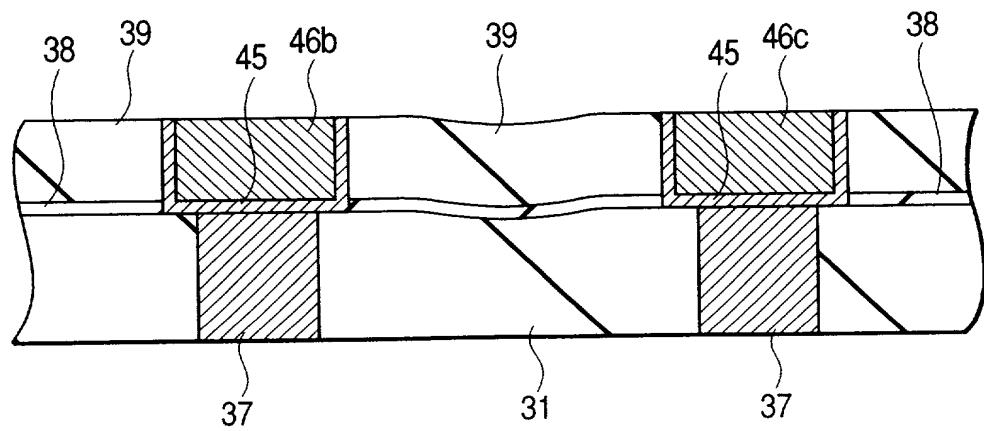
FIG. 42(a)*FIG. 42(b)*

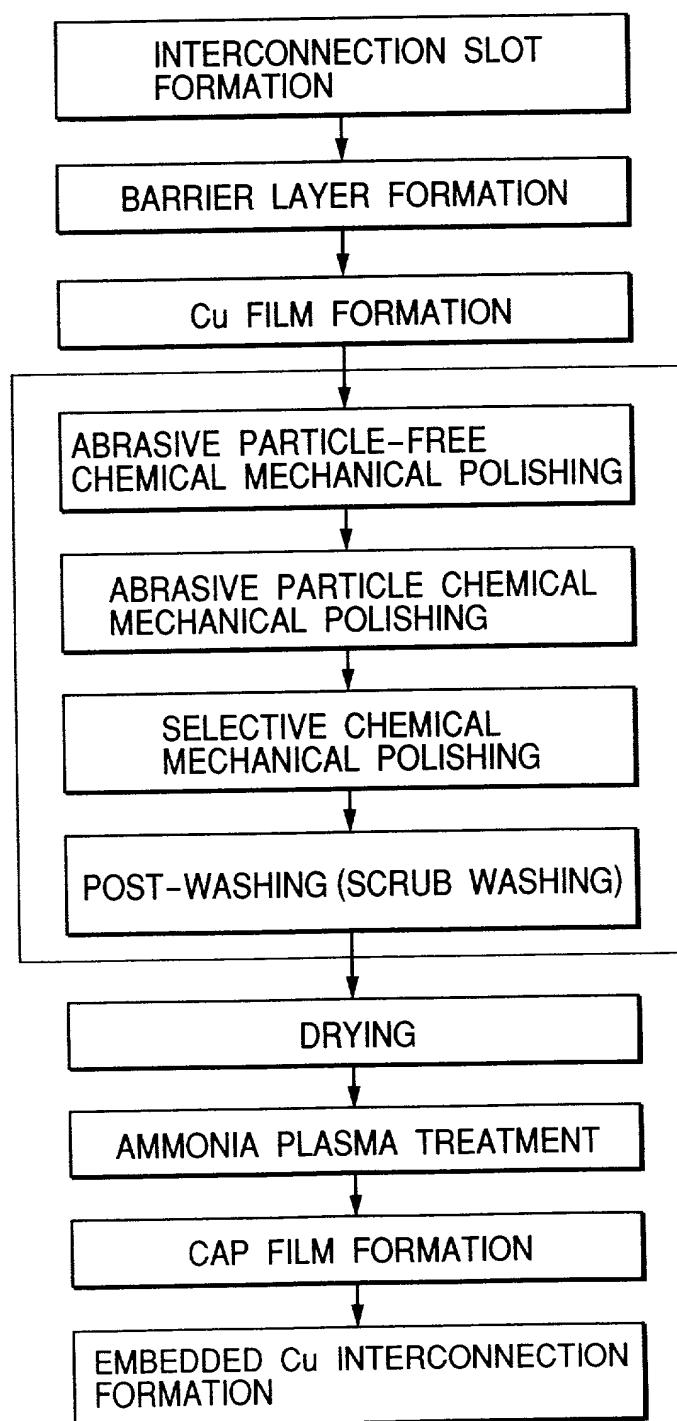
FIG. 43

FIG. 44

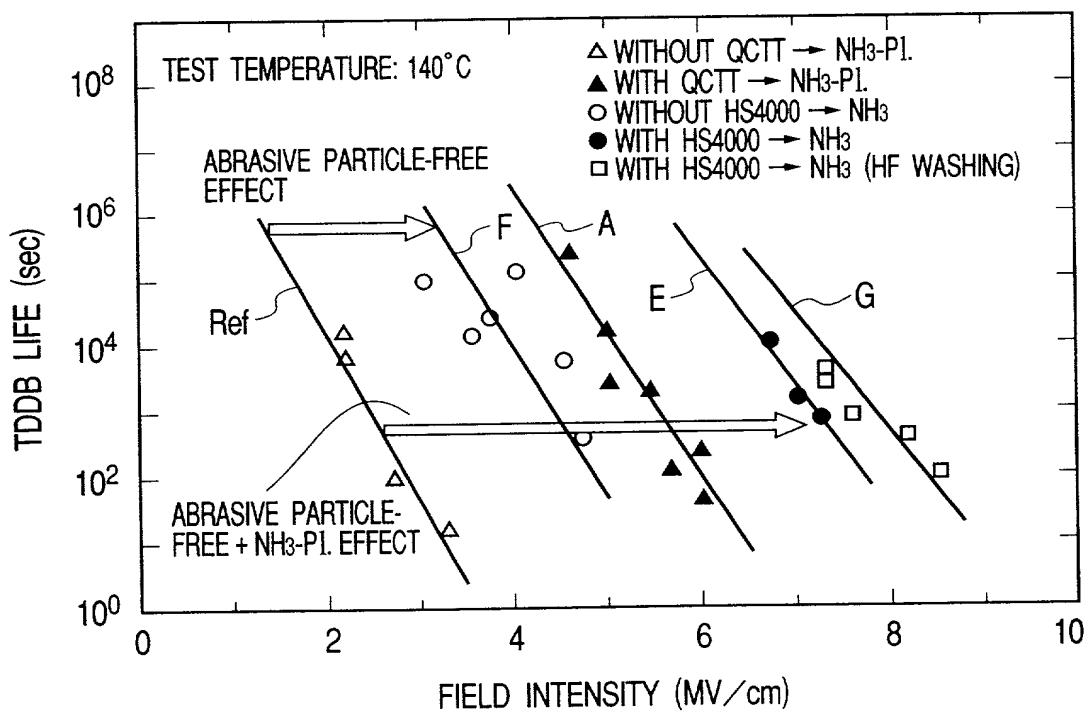


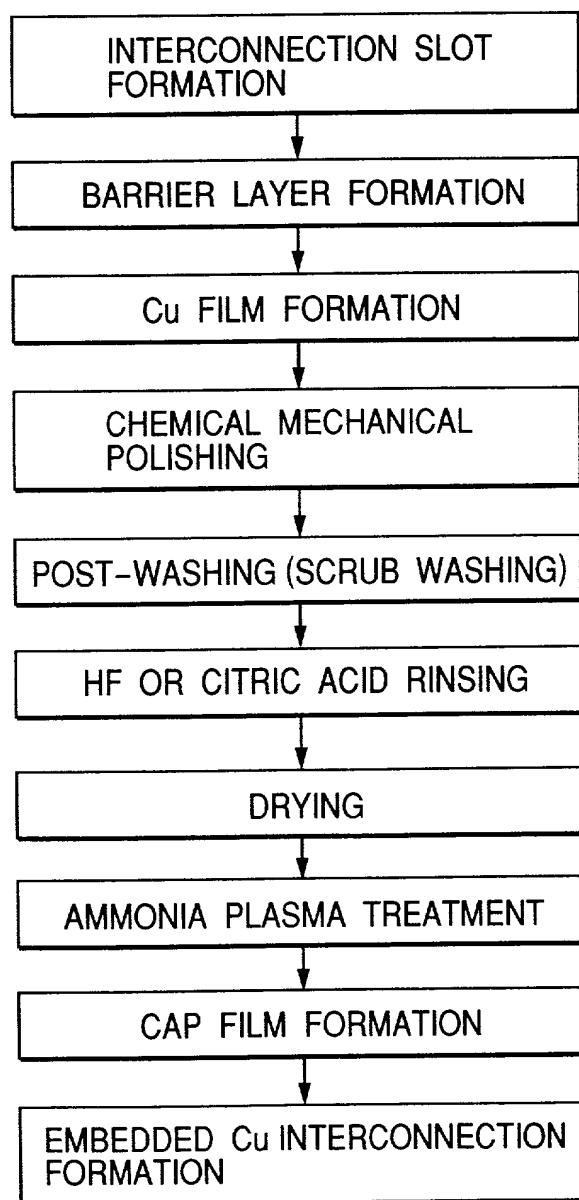
FIG. 45

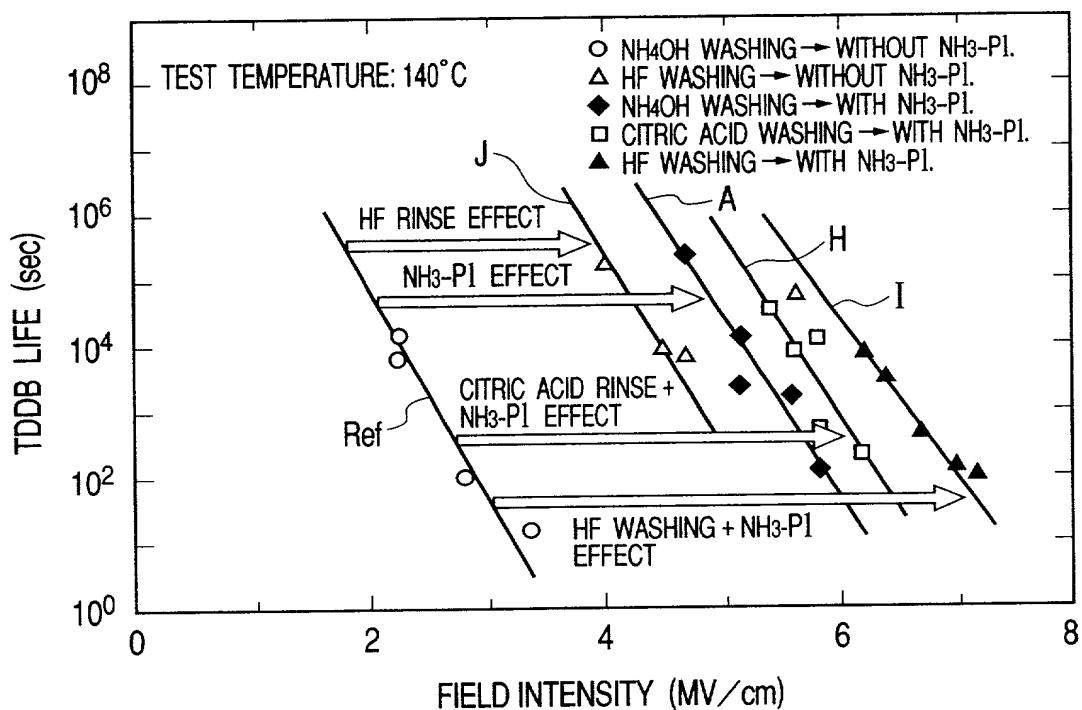
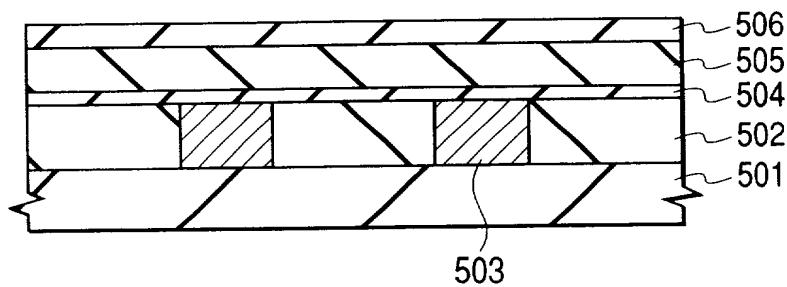
FIG. 46**FIG. 47**

FIG. 48(a)

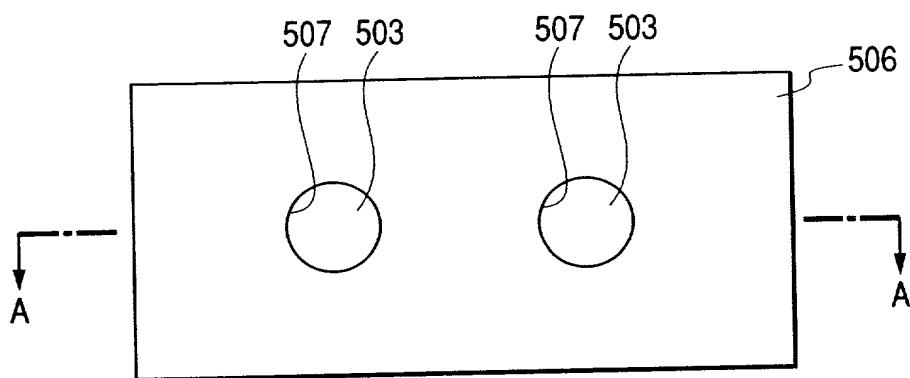


FIG. 48(b)

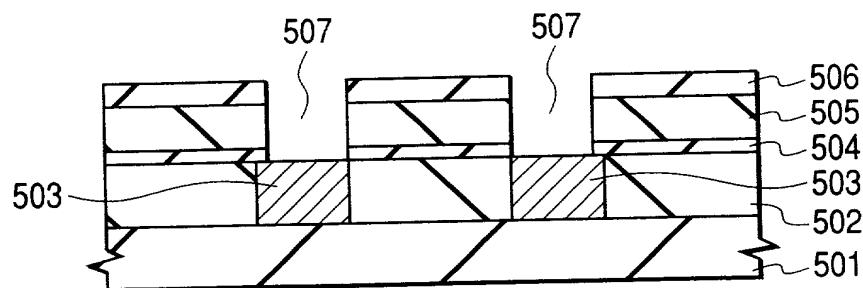
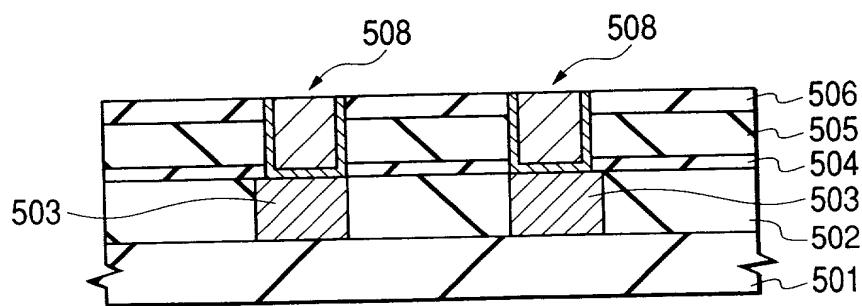
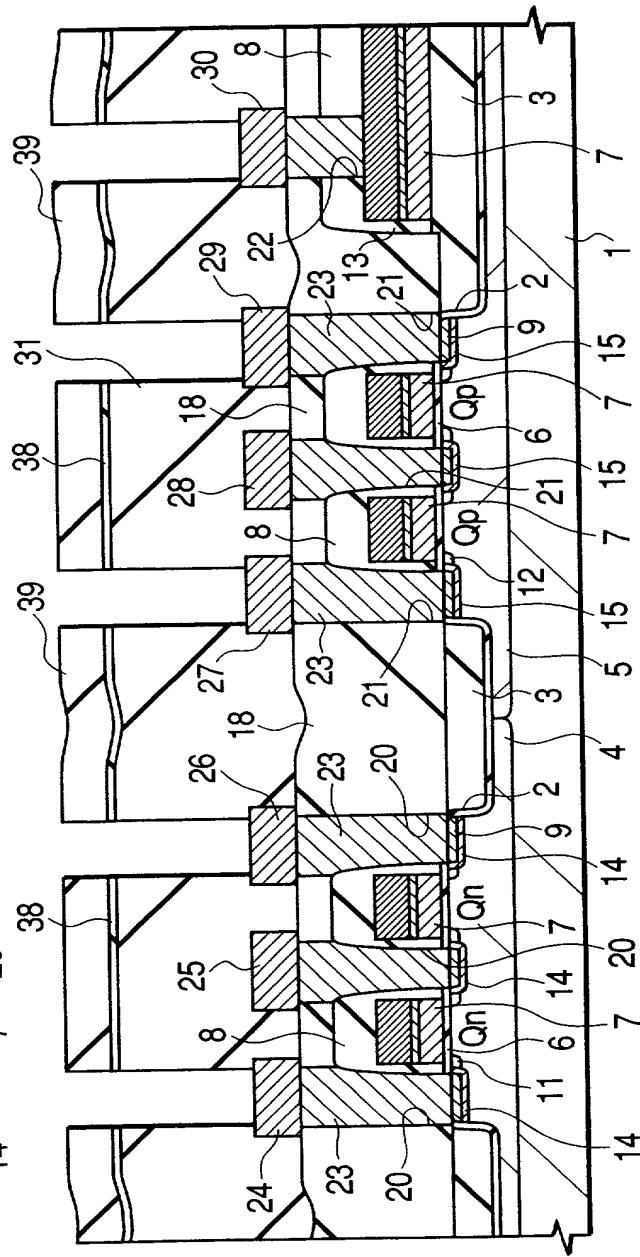
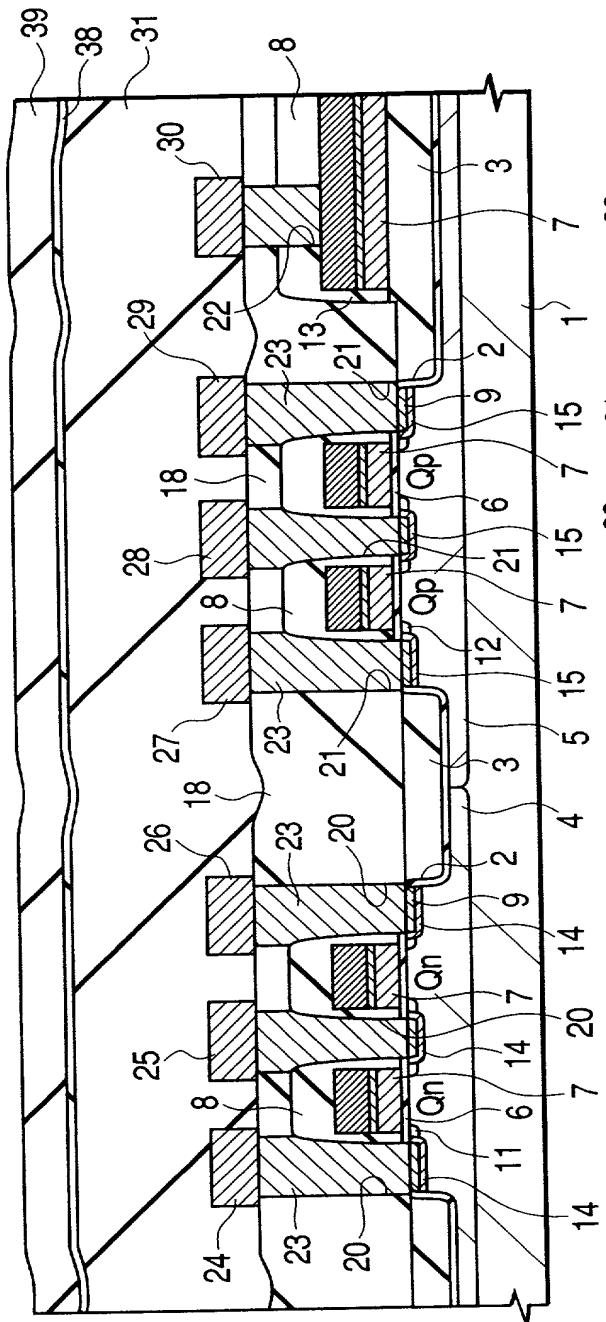


FIG. 49





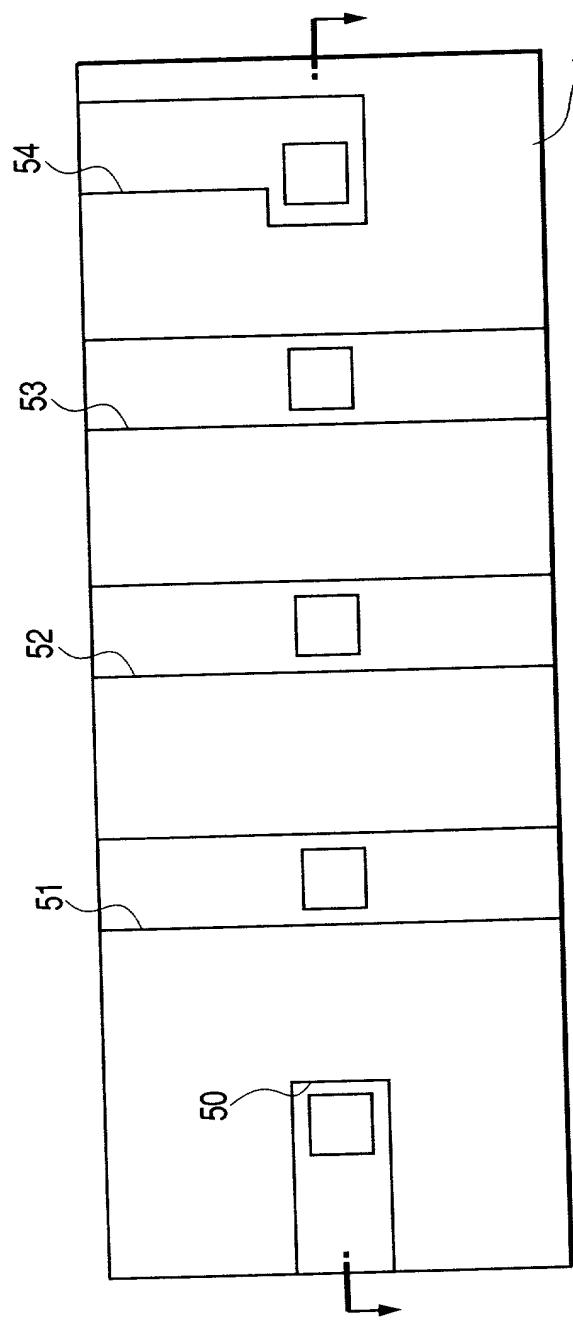


FIG. 52(a)

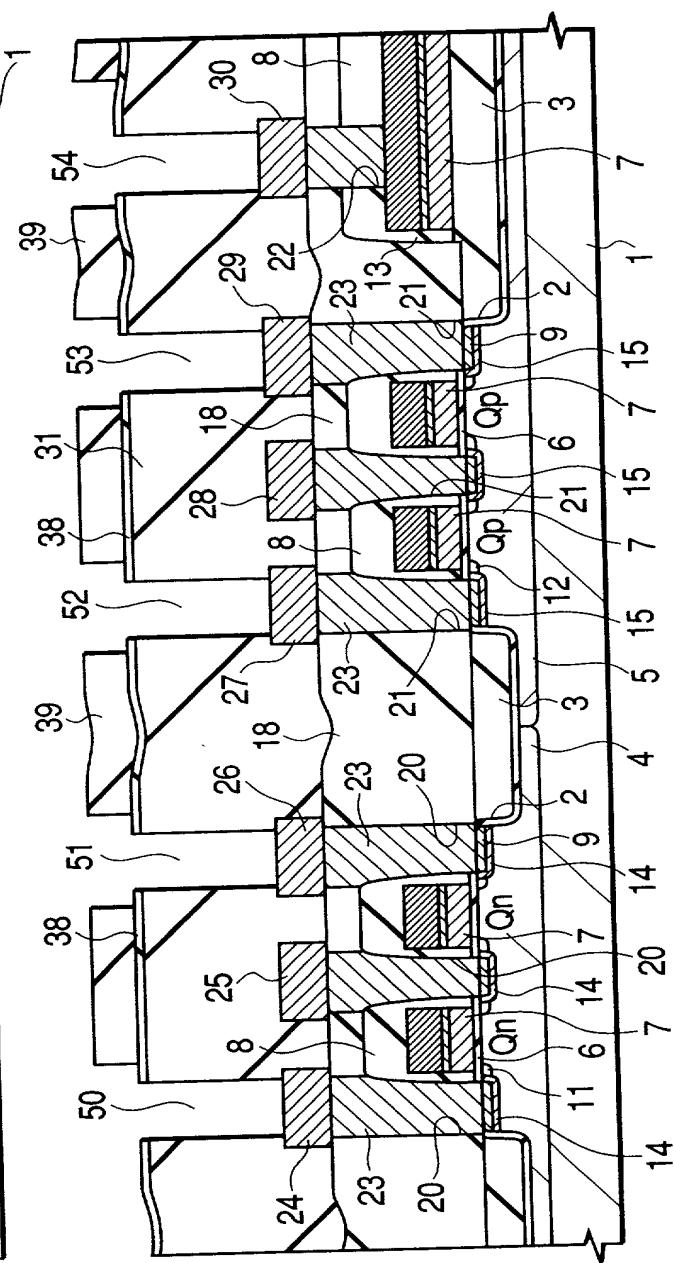


FIG. 52(b)

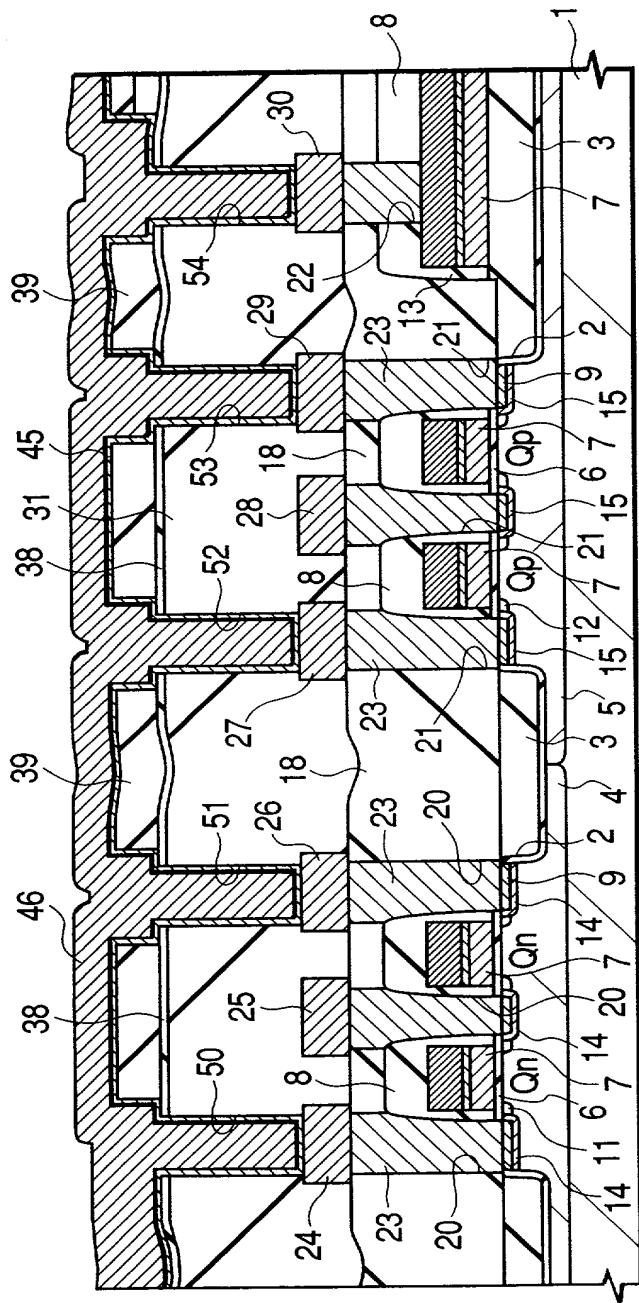


FIG. 53

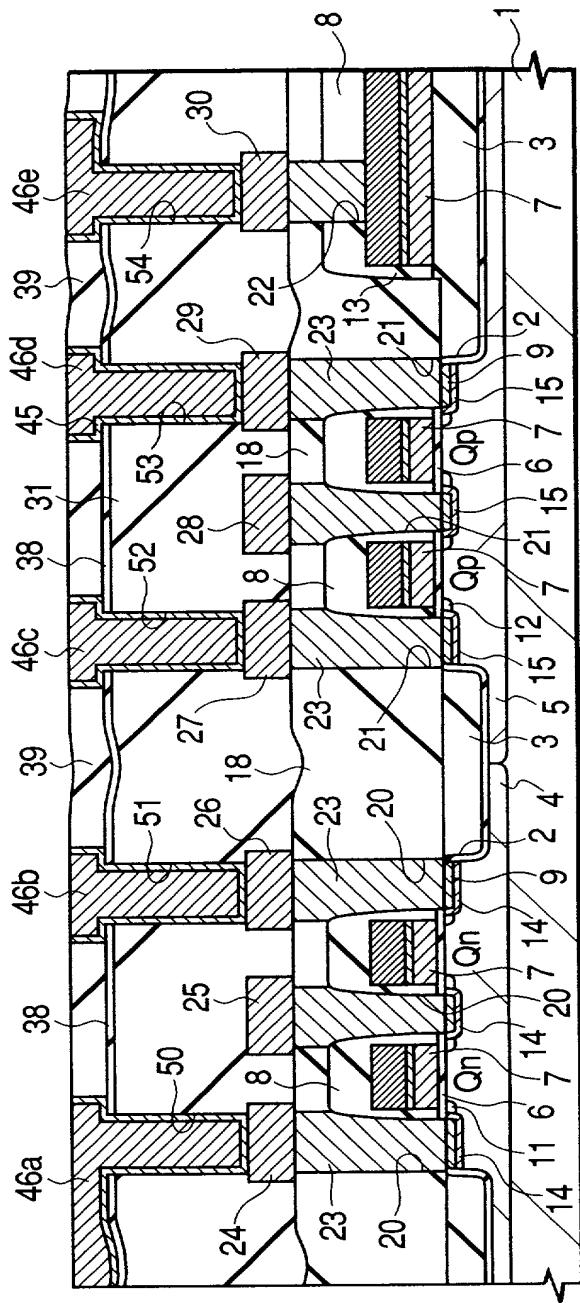


FIG. 54

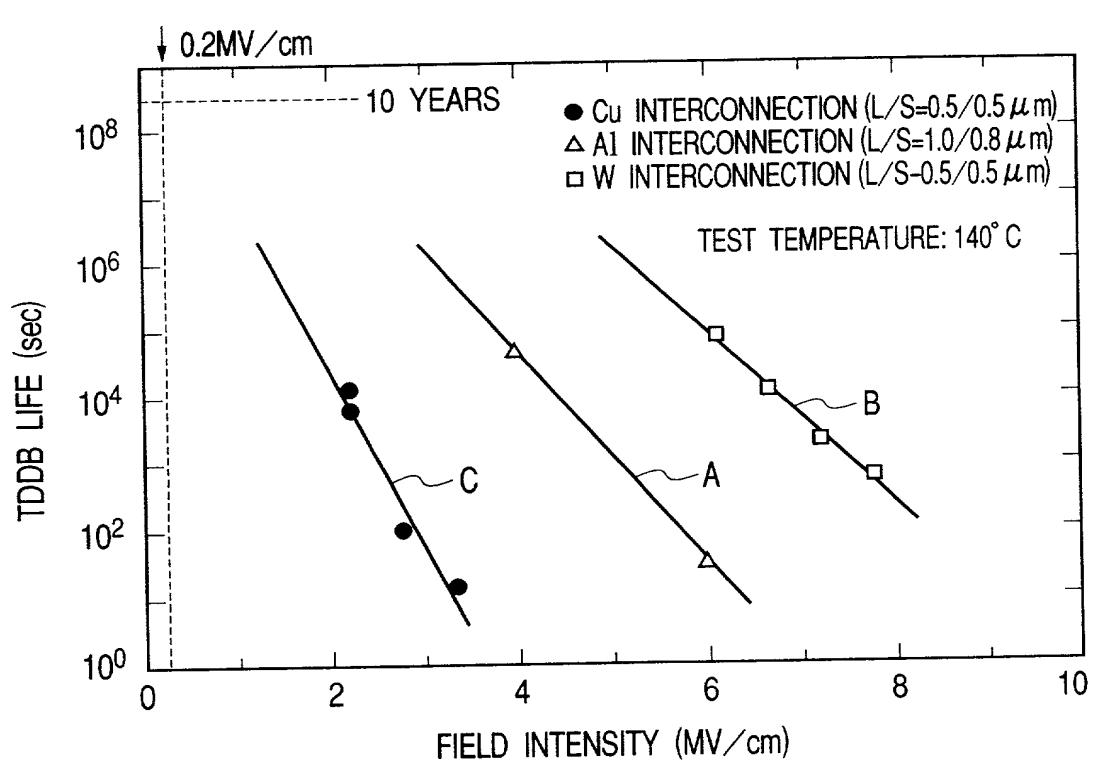
FIG. 55

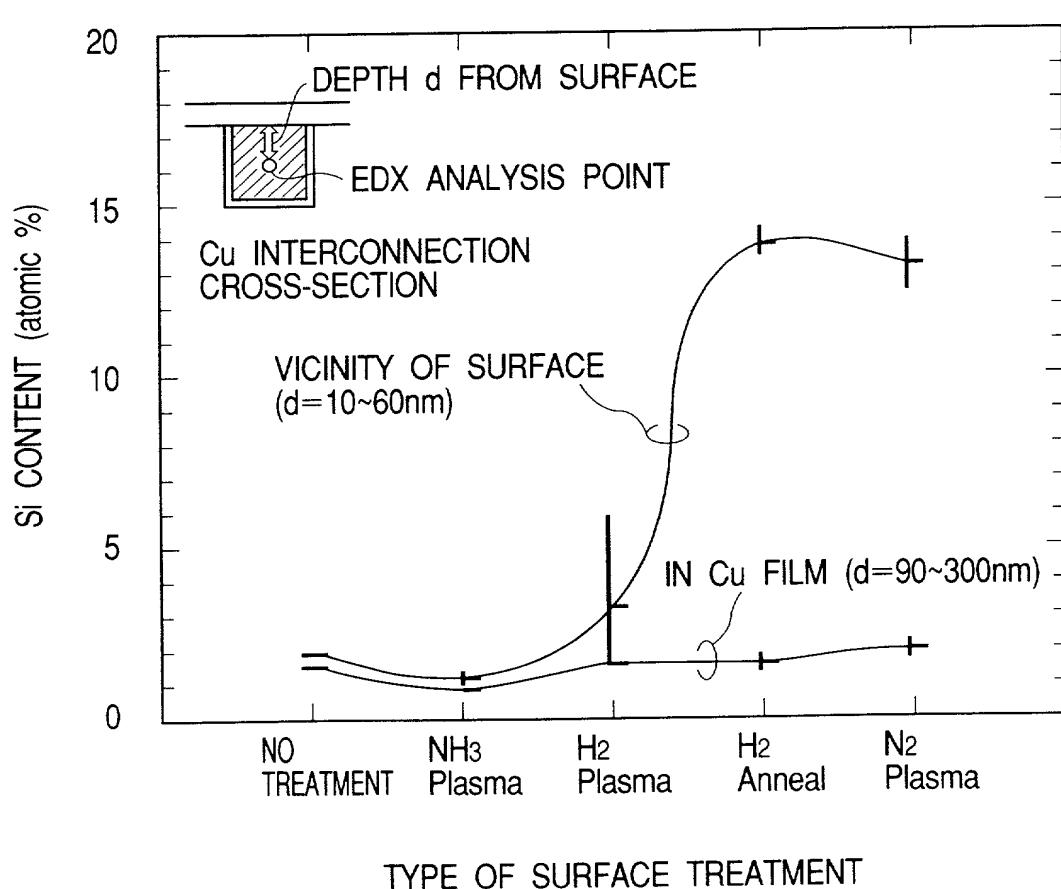
FIG. 56

FIG. 57

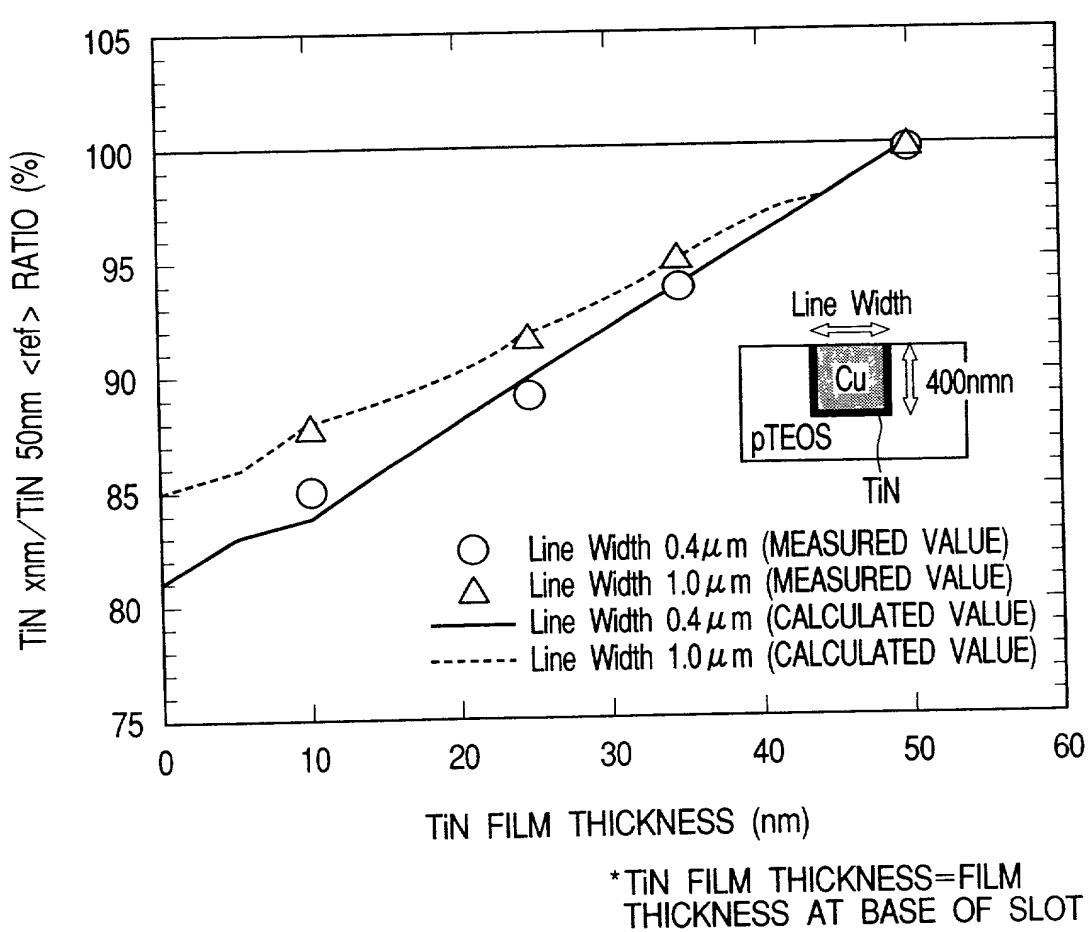


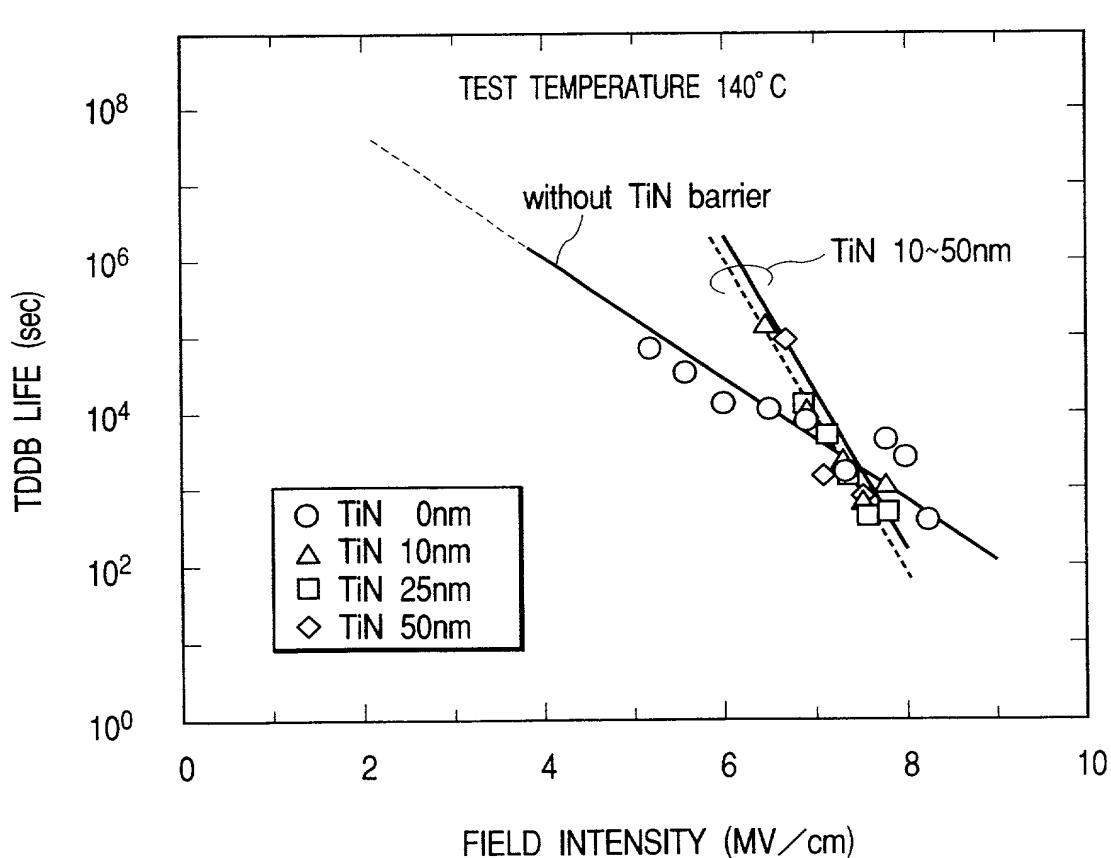
FIG. 58

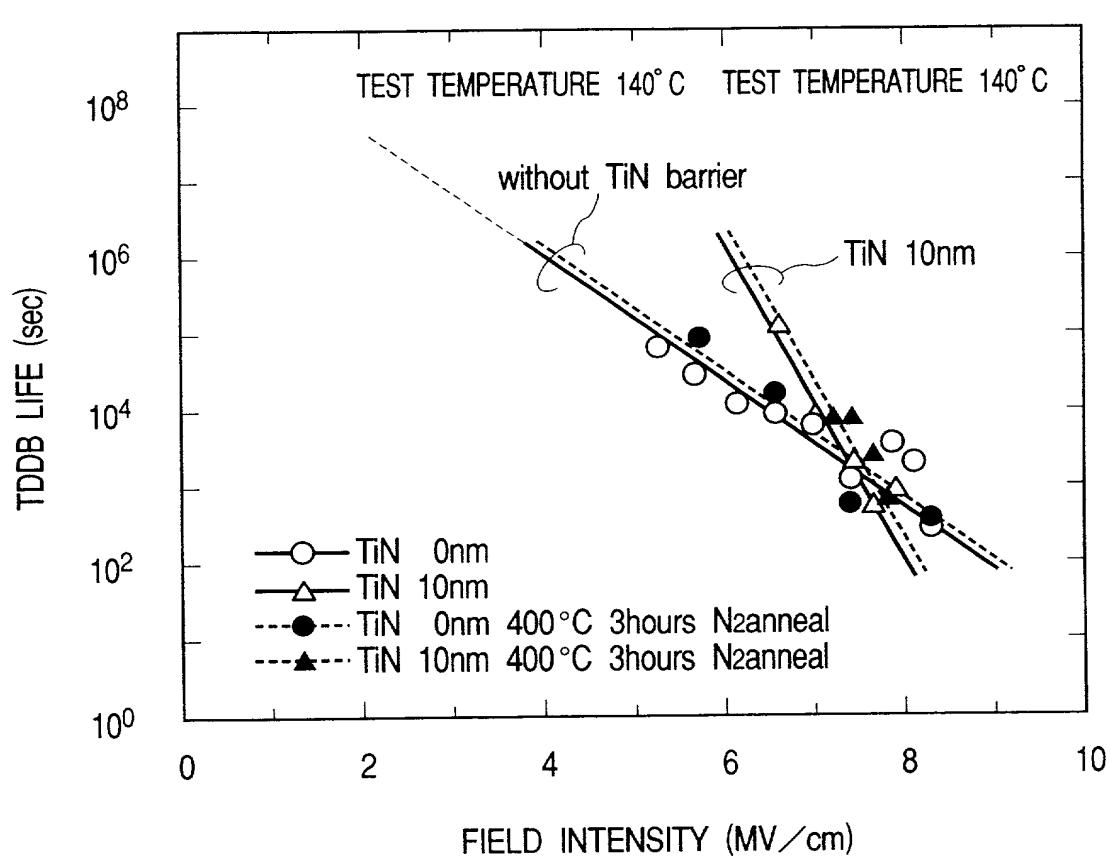
FIG. 59

FIG. 60(a)

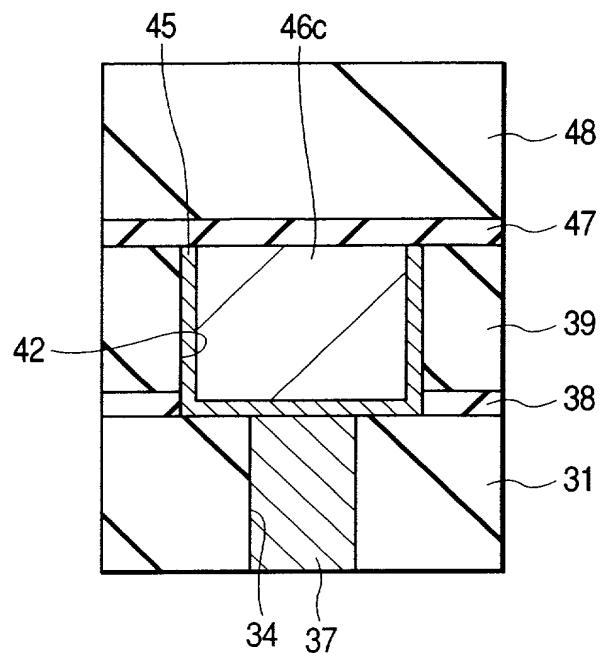


FIG. 60(b)

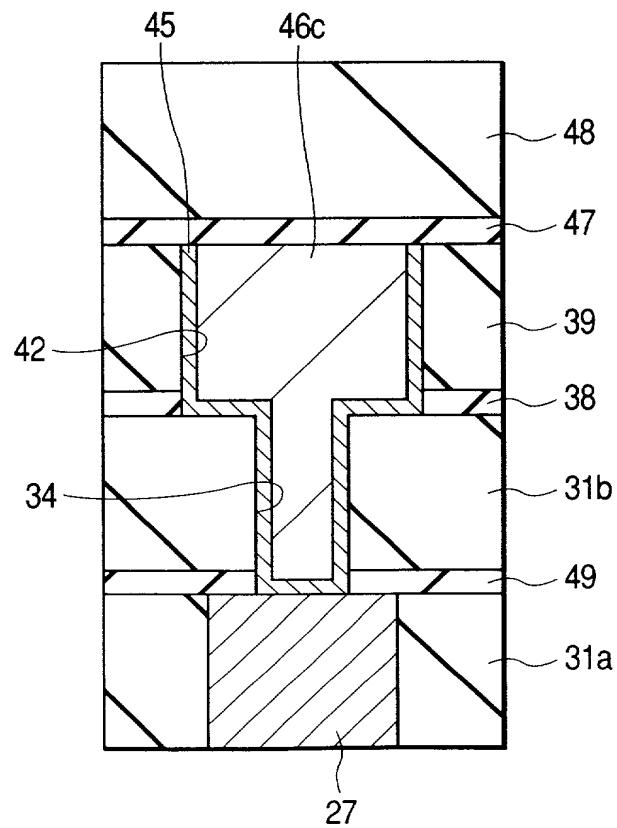


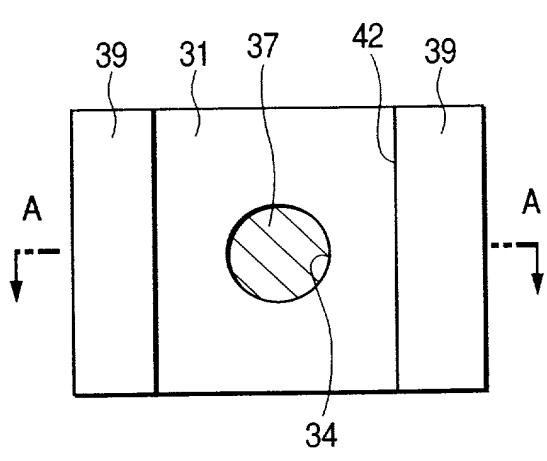
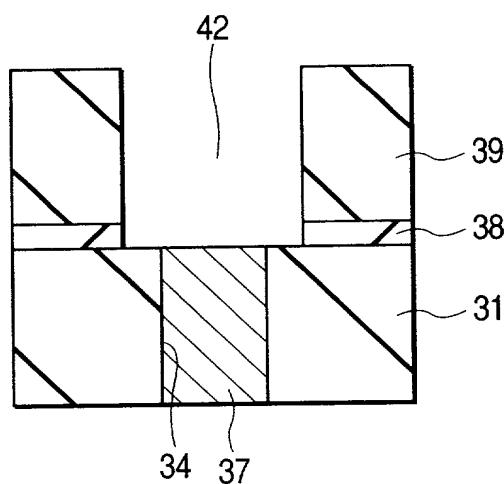
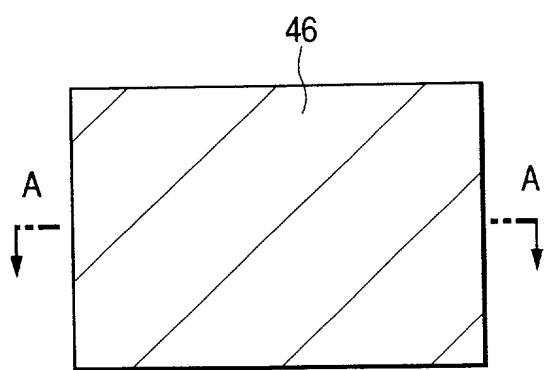
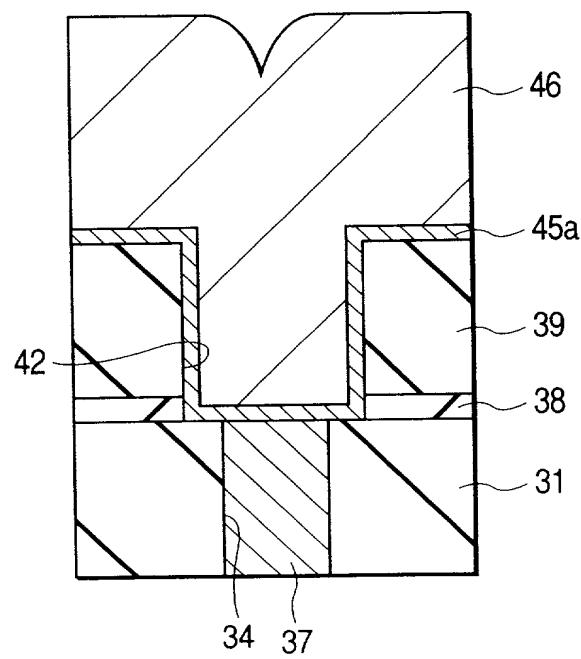
FIG. 61(a)*FIG. 61(b)**FIG. 62(a)**FIG. 62(b)*

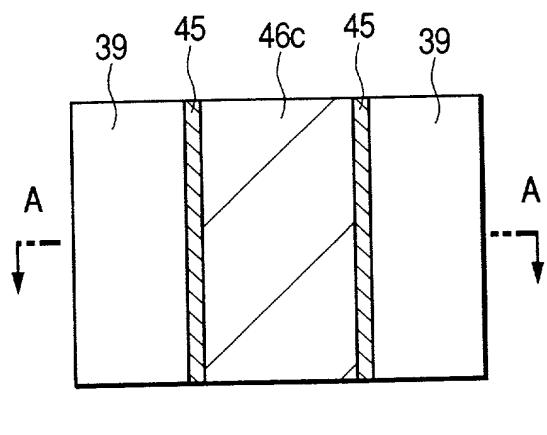
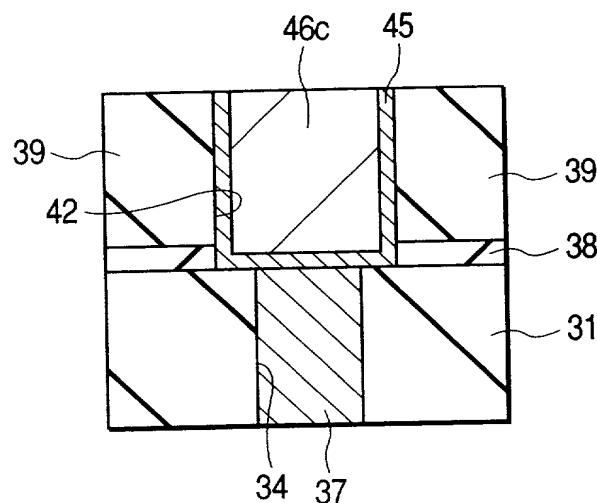
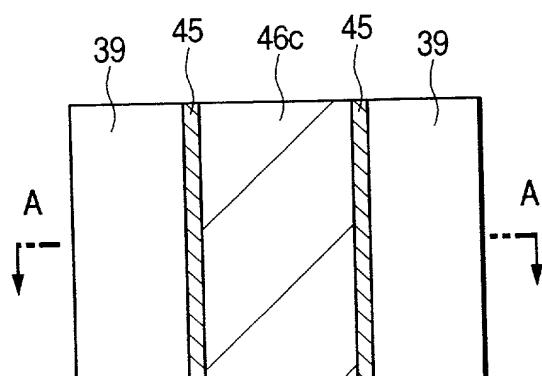
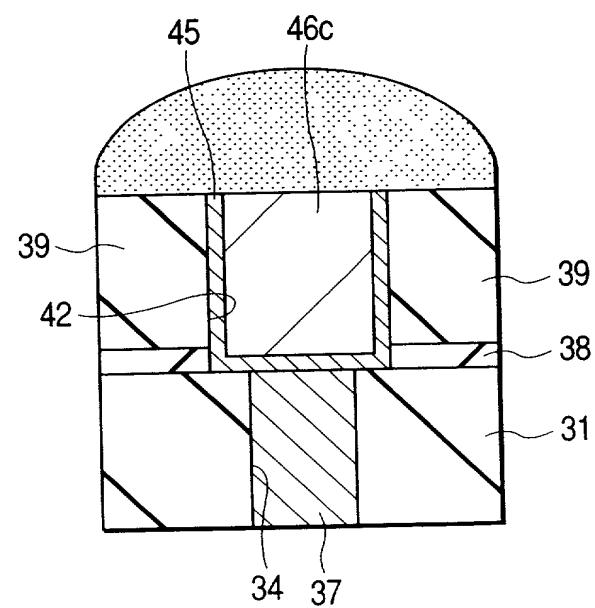
FIG. 63(a)*FIG. 63(b)**FIG. 64(a)**FIG. 64(b)*

FIG. 65(a)

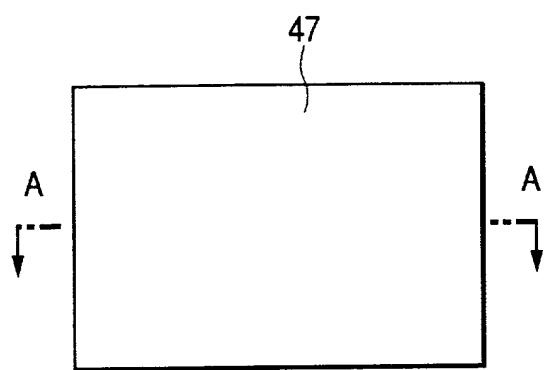


FIG. 65(b)

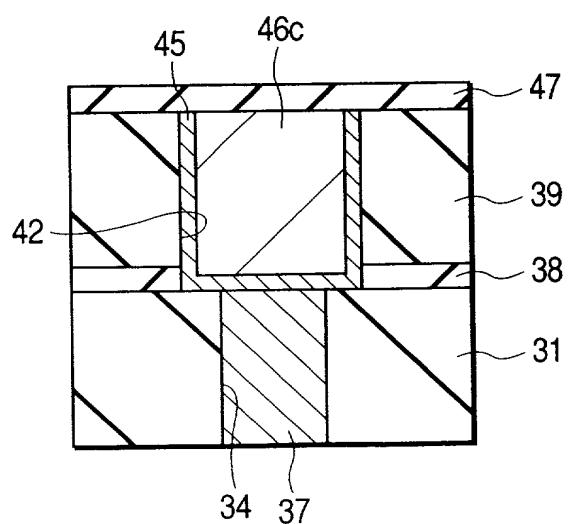


FIG. 66(a)

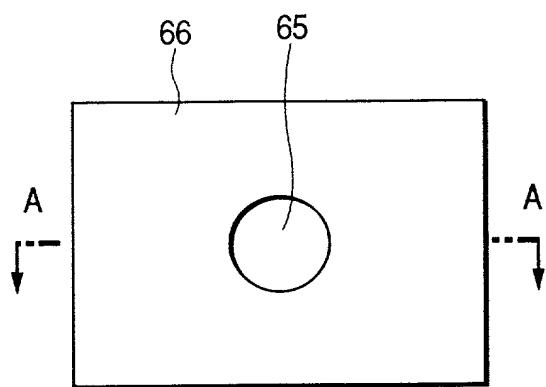


FIG. 66(b)

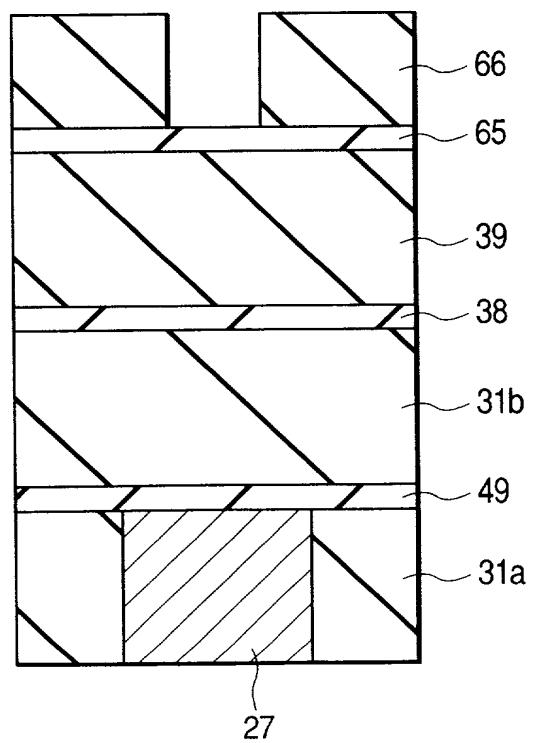


FIG. 67(a)

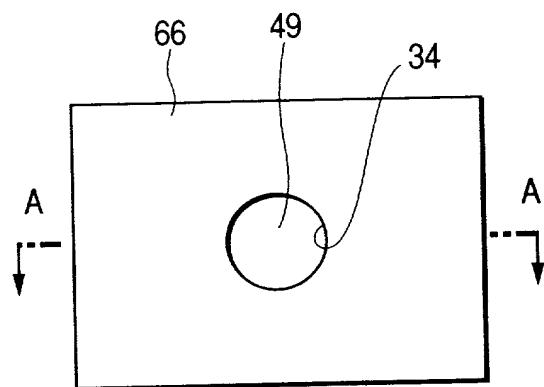


FIG. 67(b)

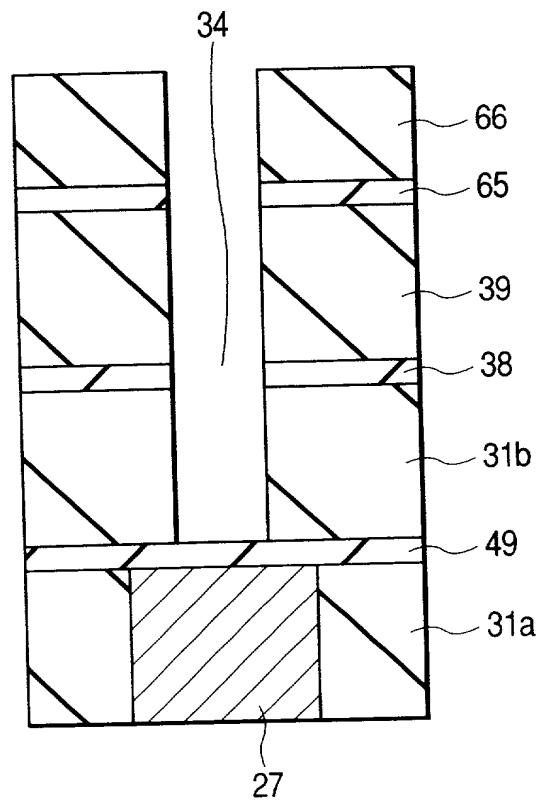


FIG. 68(a)

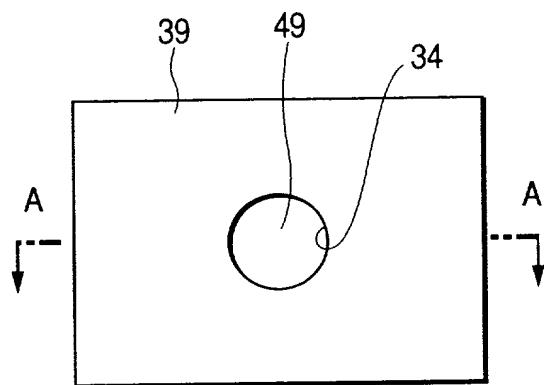


FIG. 68(b)

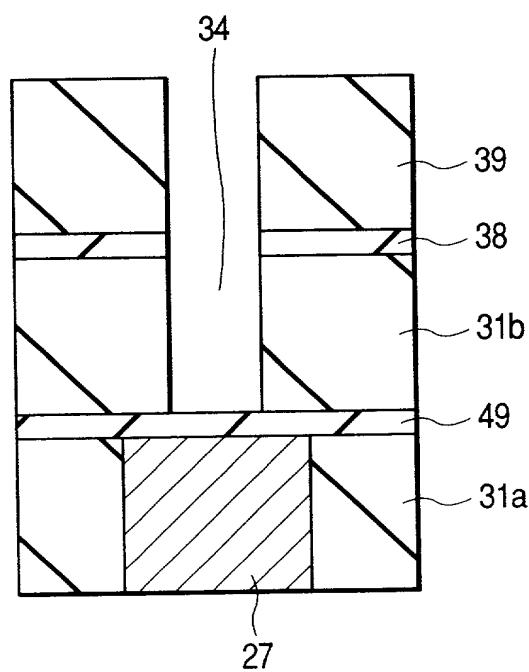


FIG. 69(a)

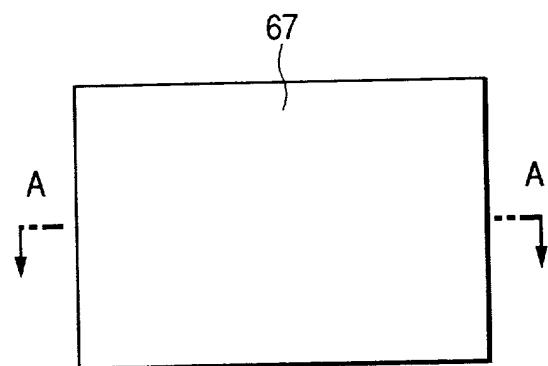


FIG. 69(b)

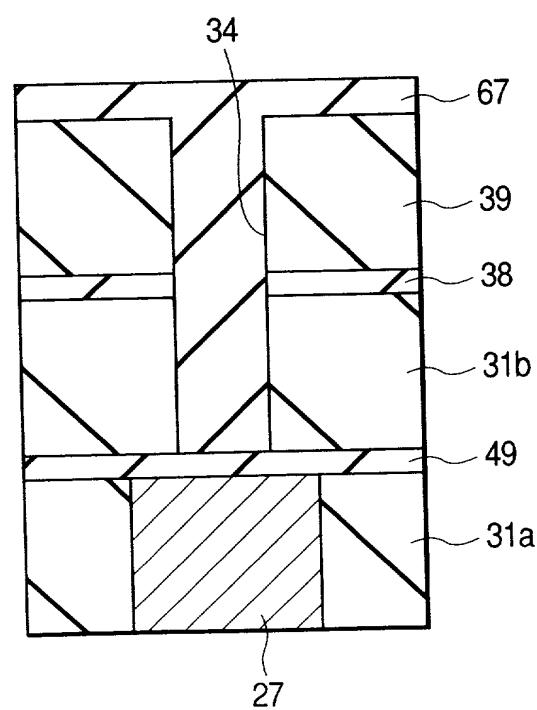


FIG. 70(a)

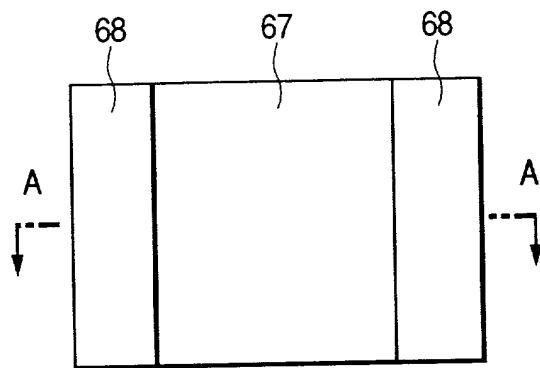


FIG. 70(b)

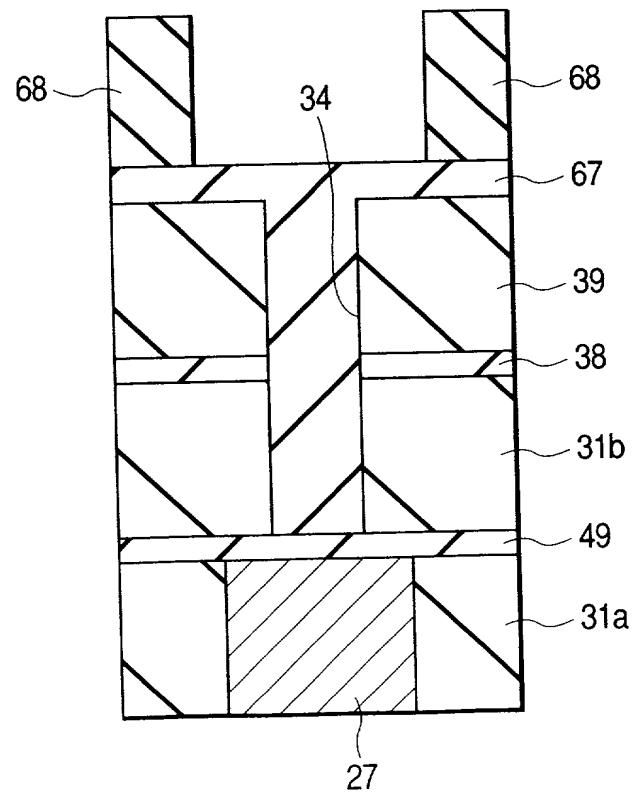


FIG. 71(a)

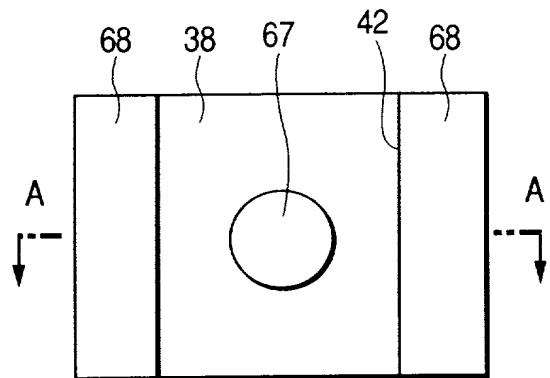


FIG. 71(b)

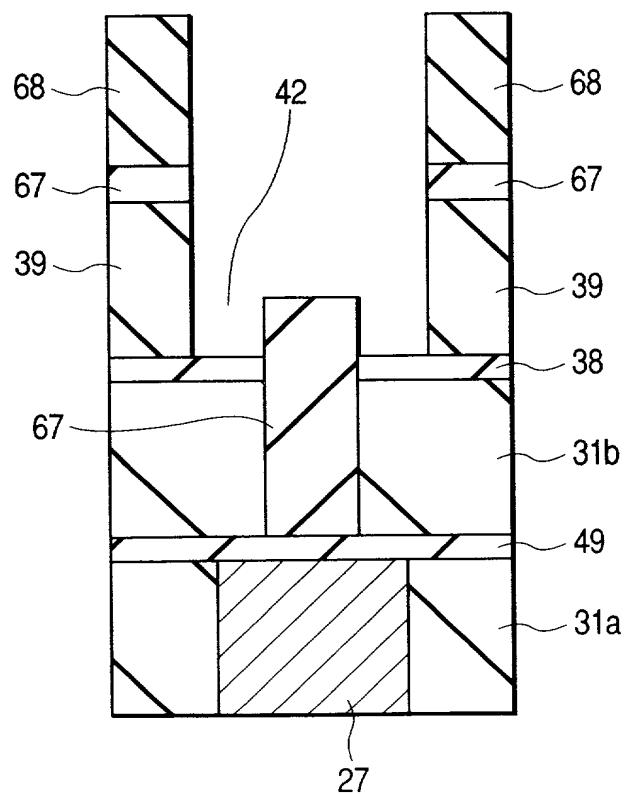


FIG. 72(a)

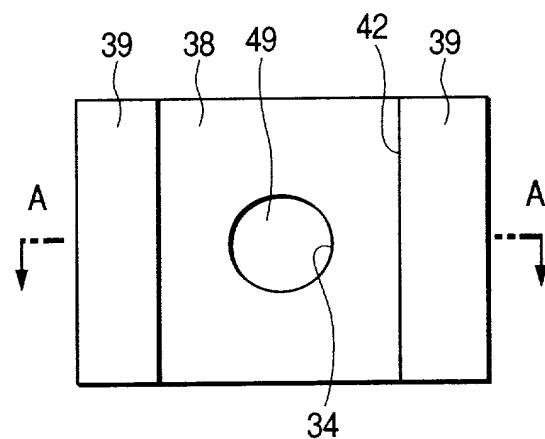


FIG. 72(b)

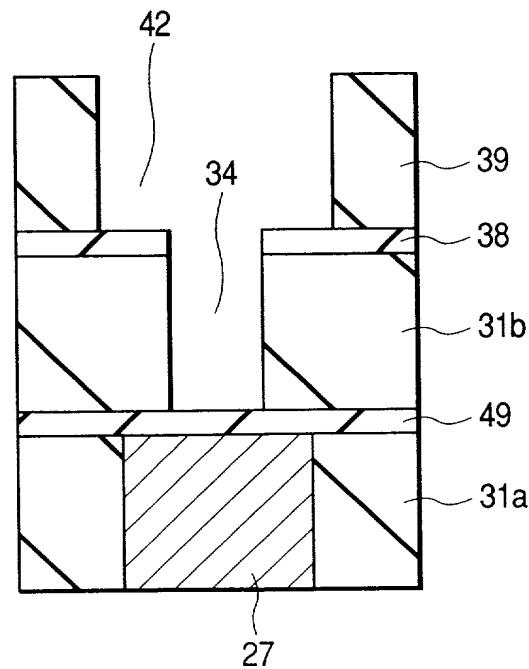


FIG. 73(a)

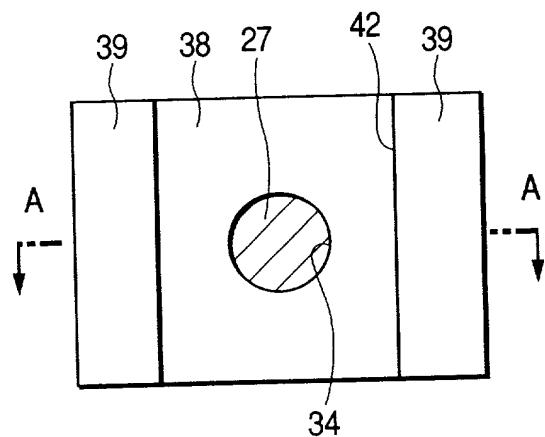


FIG. 73(b)

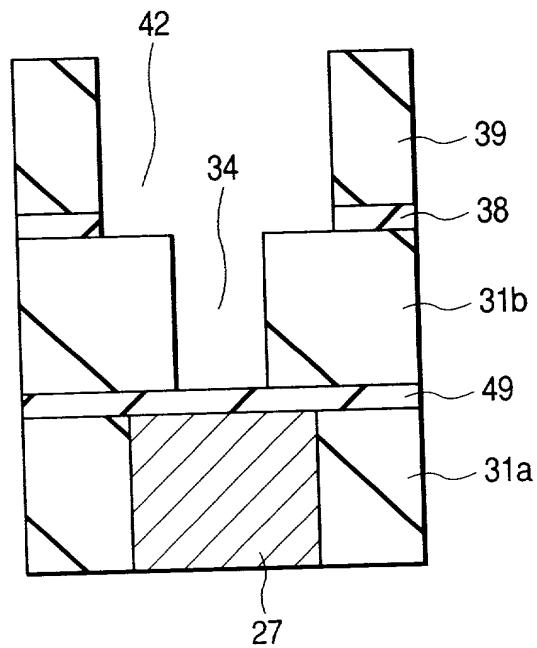


FIG. 74(a)

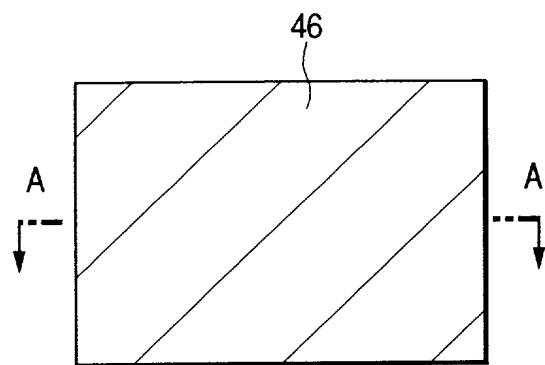


FIG. 74(b)

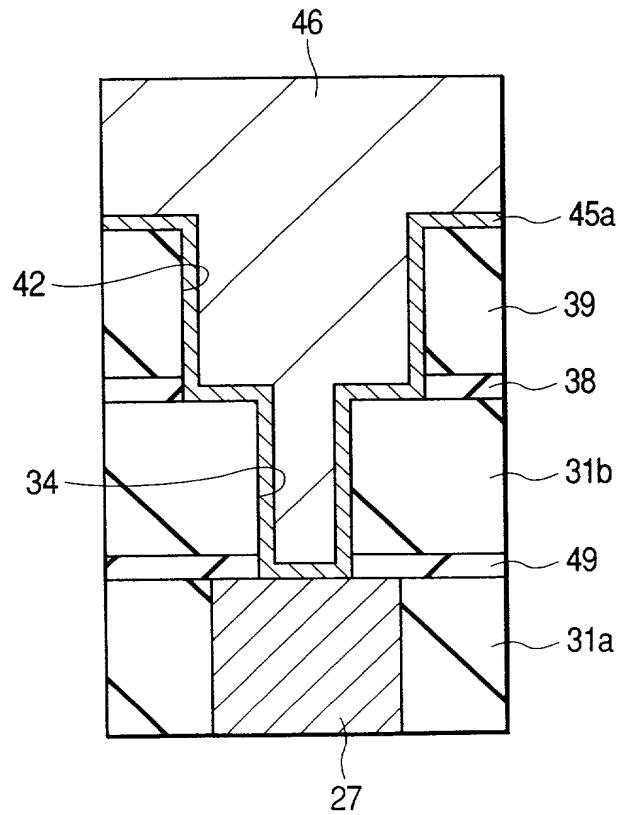


FIG. 75(a)

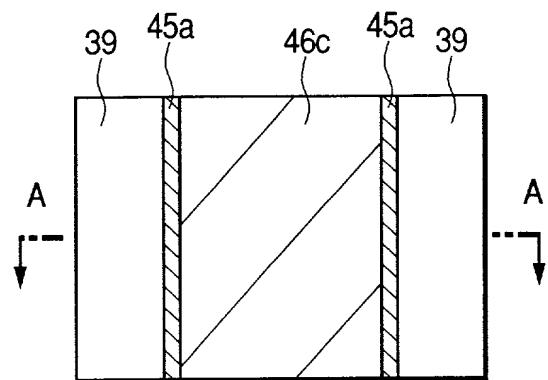


FIG. 75(b)

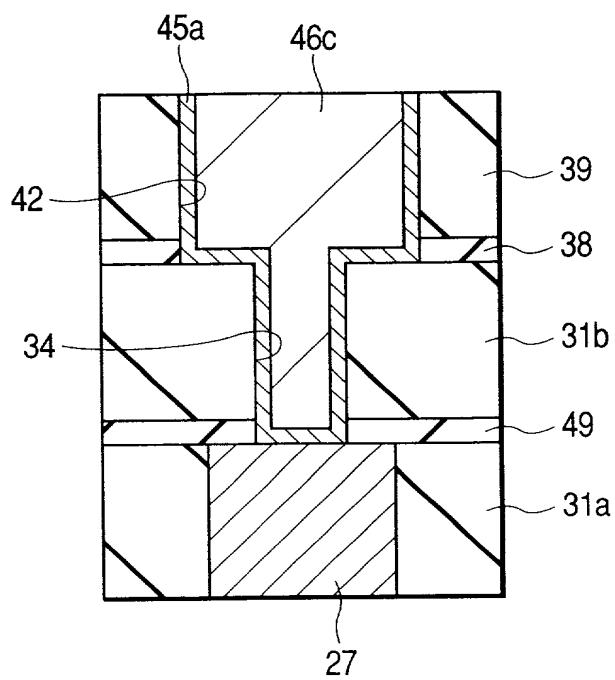


FIG. 76(a)

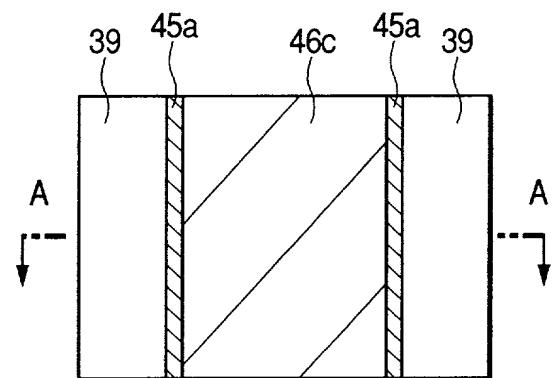


FIG. 76(b)

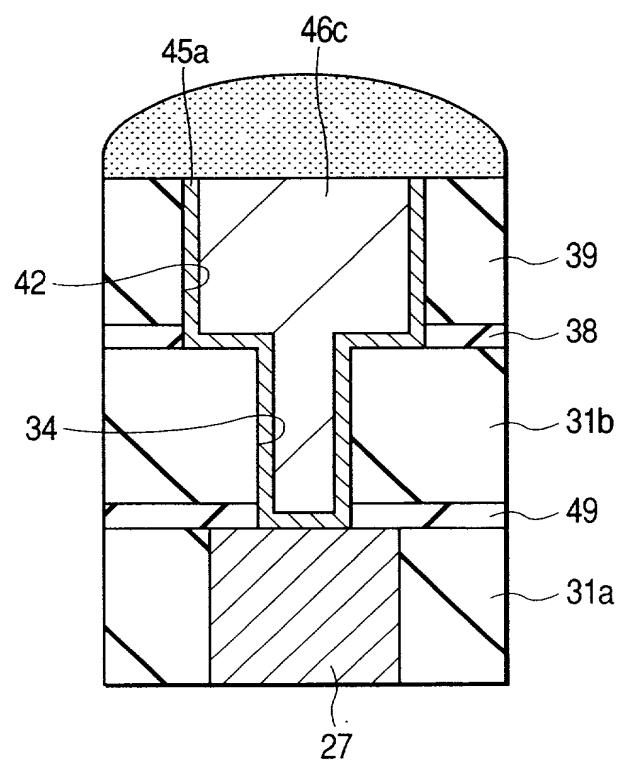


FIG. 77(a)

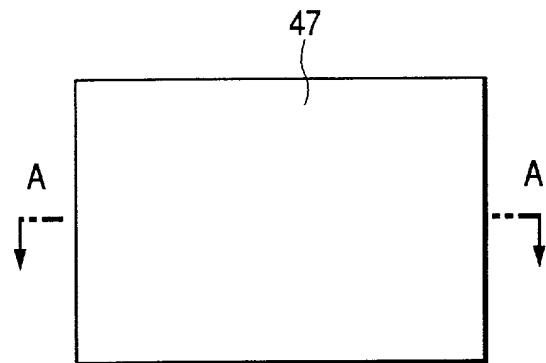


FIG. 77(b)

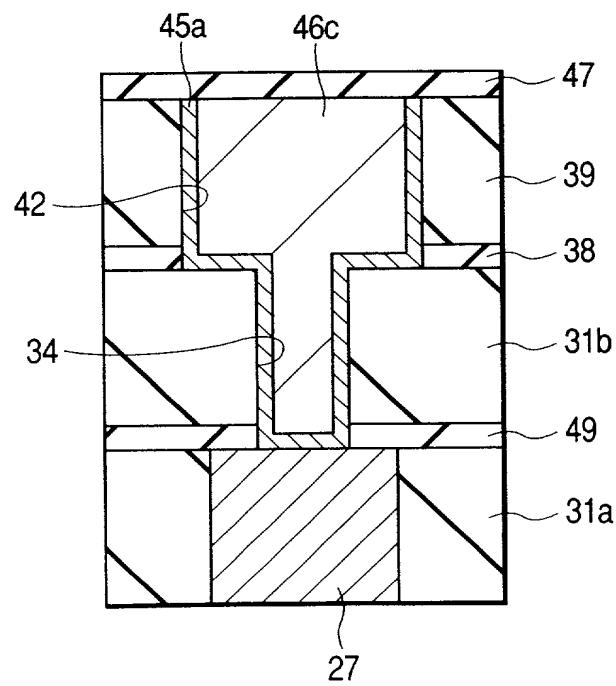


FIG. 78(a)

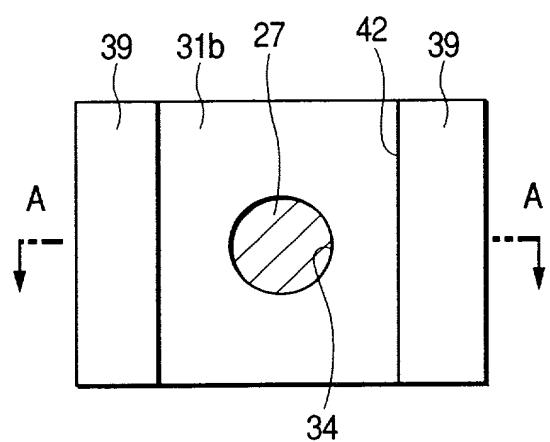


FIG. 78(b)

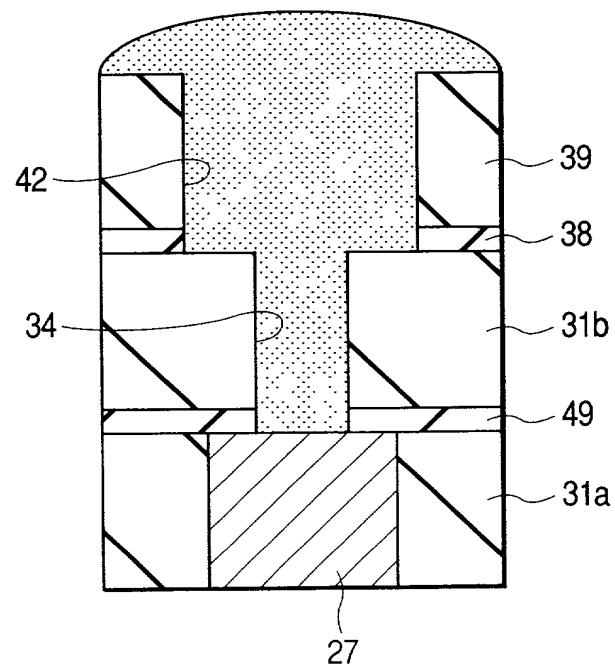


FIG. 79(a)

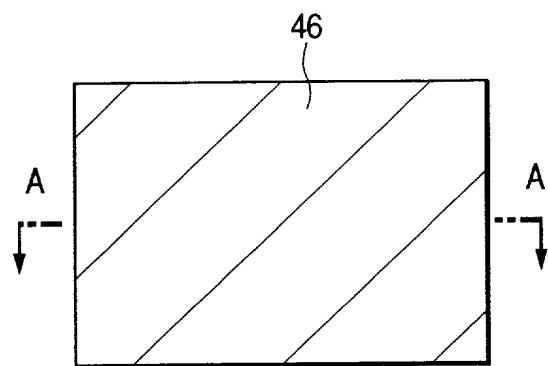


FIG. 79(b)

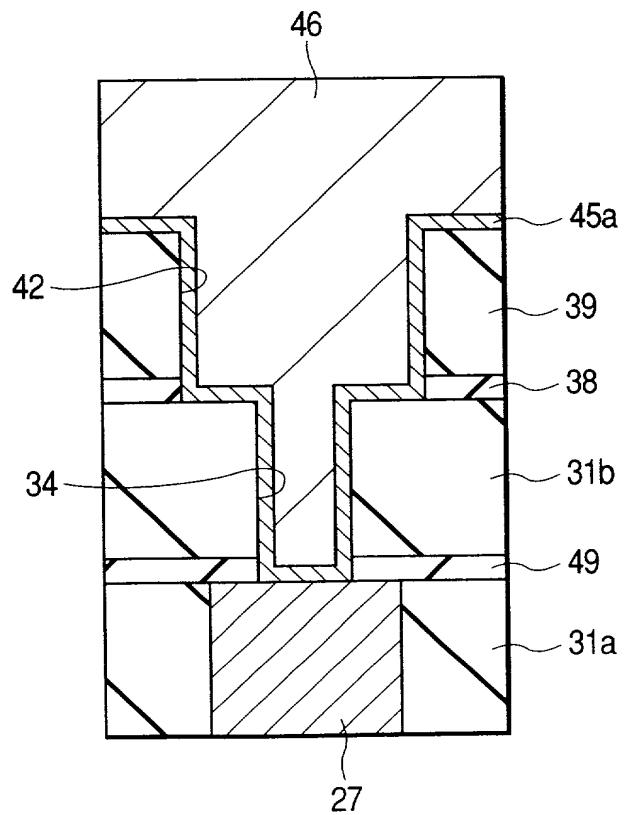


FIG. 80(a)

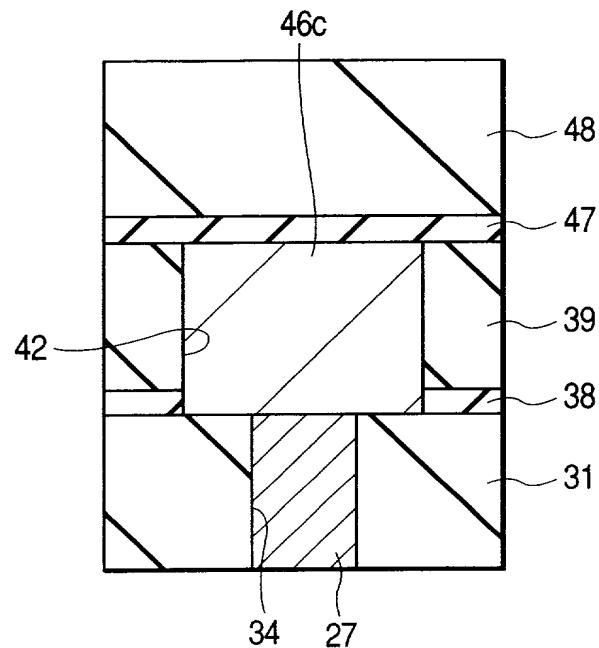


FIG. 80(b)

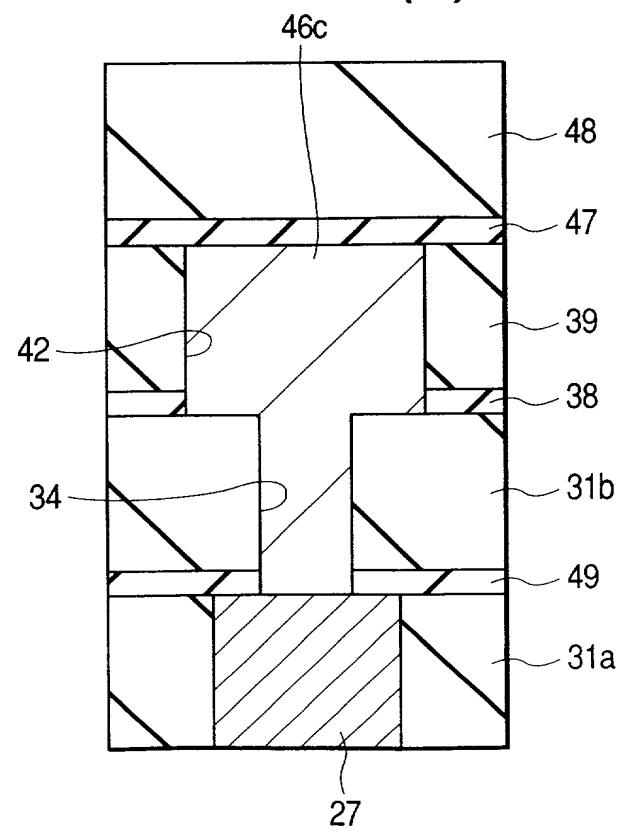


FIG. 81(a)

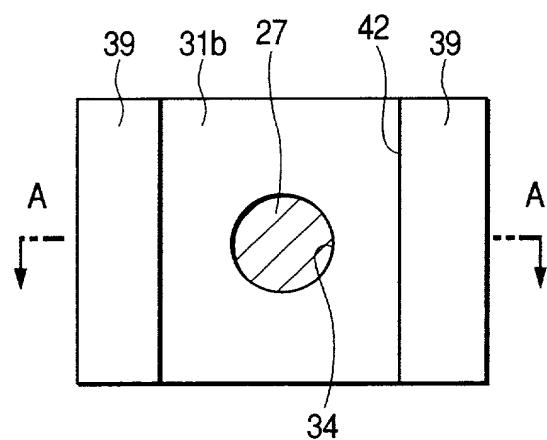


FIG. 81(b)

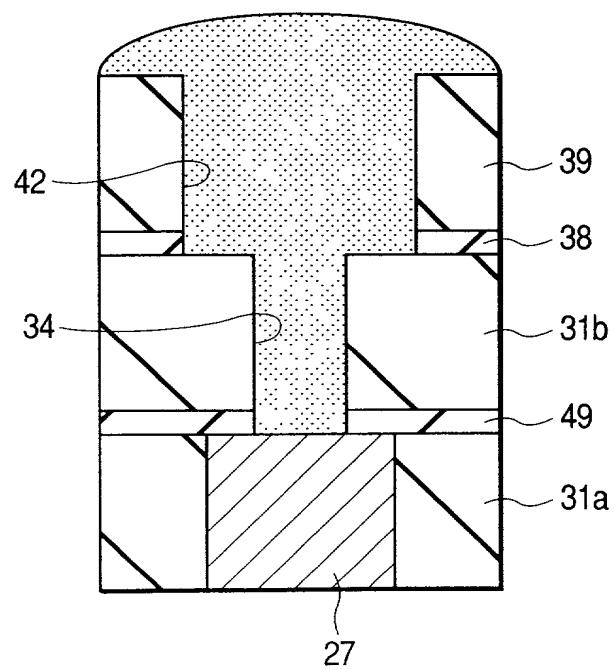


FIG. 82(a)

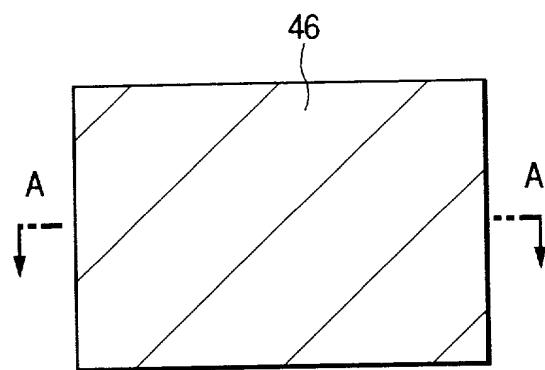


FIG. 82(b)

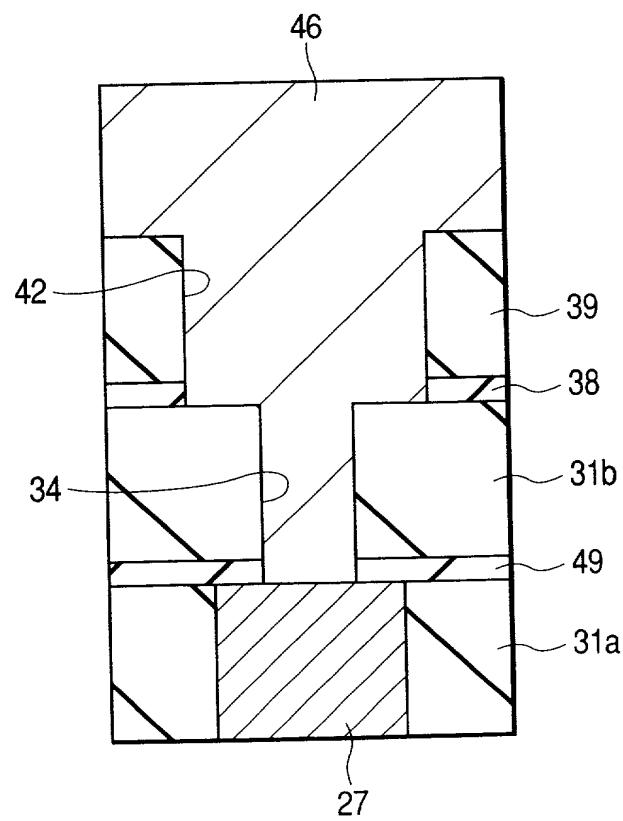


FIG. 83(a)

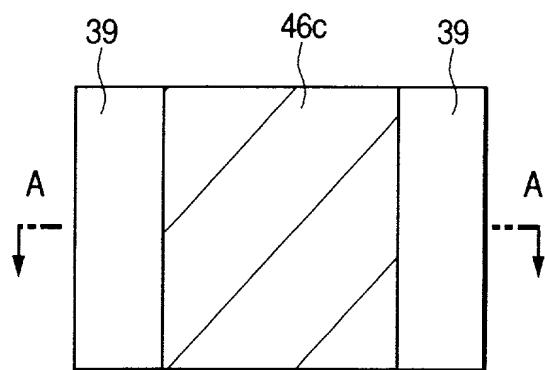


FIG. 83(b)

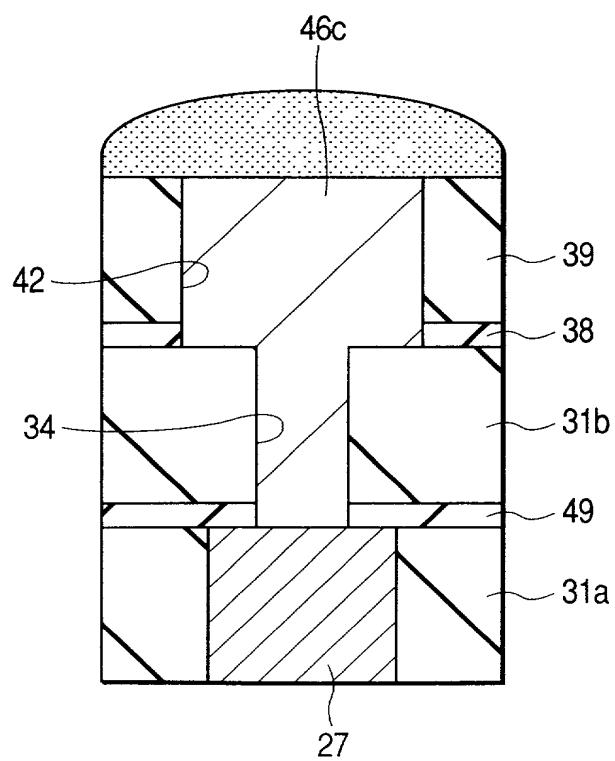


FIG. 84(a)

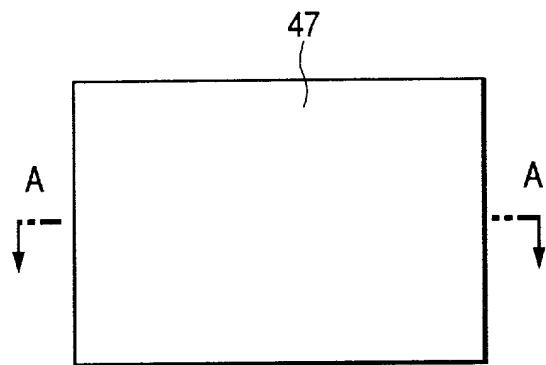


FIG. 84(b)

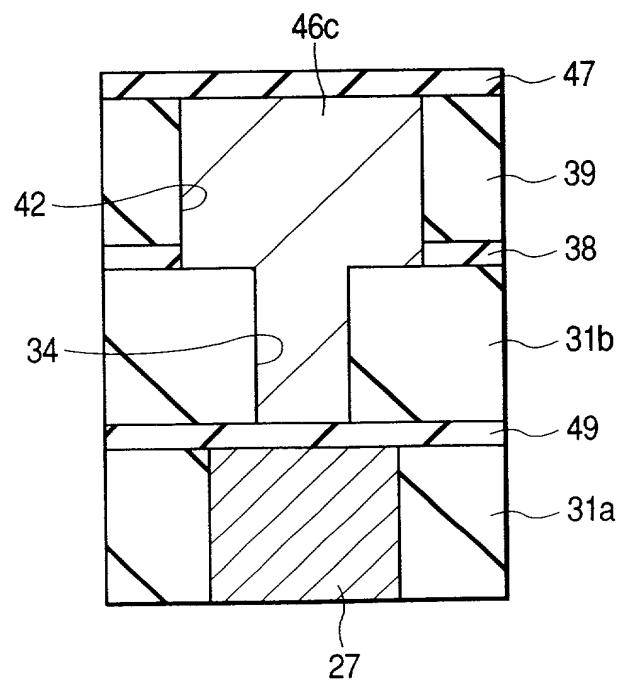


FIG. 85(a)

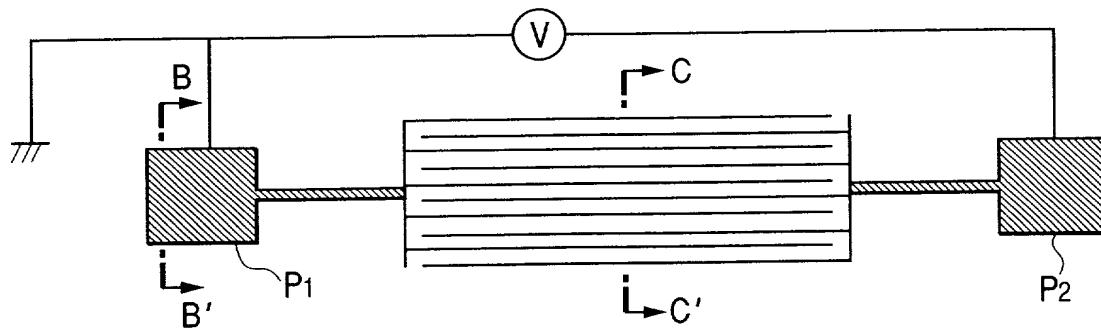


FIG. 85(b)

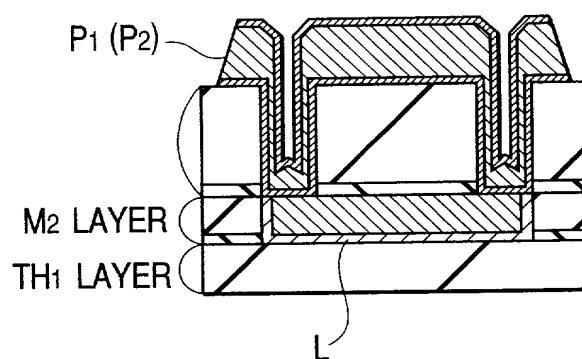


FIG. 85(c)

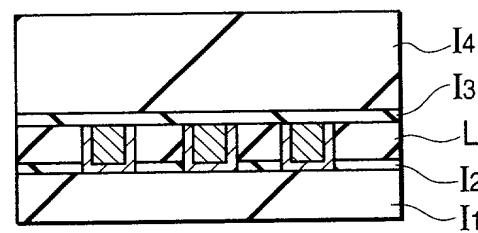


FIG. 86

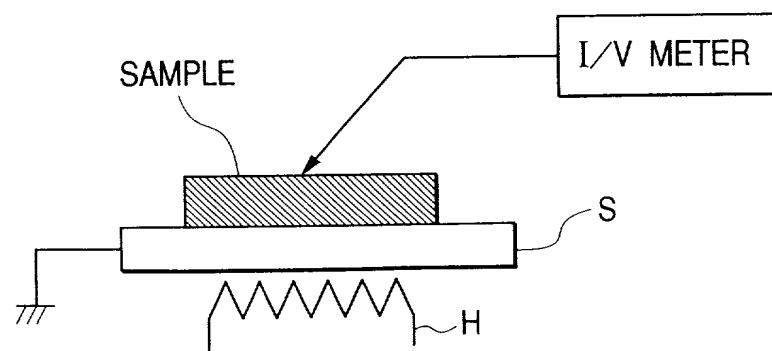


FIG. 87

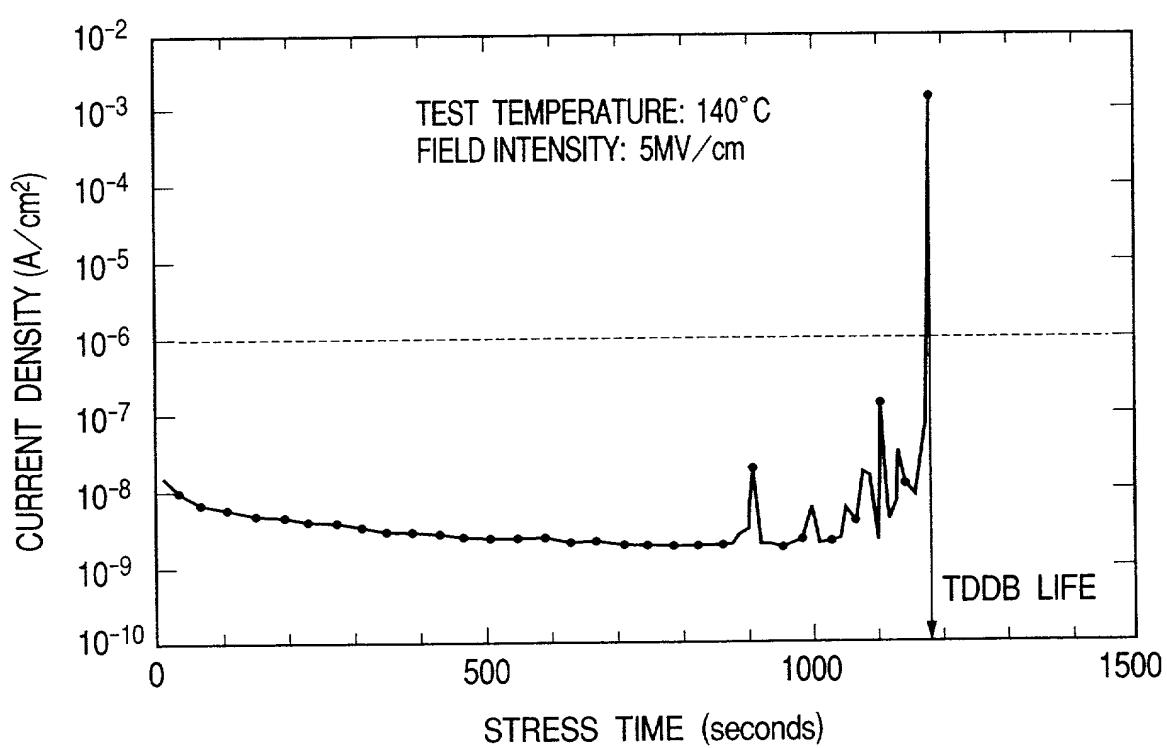


FIG. 88

